



# Surface Mount Ferrite Products

*Inductors & Ferrite Beads*

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## Wire Wound Chip Inductors - L-PWS/L-PWF/L-PWI/L-PWR Series

**Features:**

- Small size wound chip inductor with low DC resistance
- Dimension without directional influence on mountability and characteristics

**Operating Temperature:**

- -1 °C to +105°C (including self-generated heat)

**Applications:**

- Digital Still Cameras (DSC), Digital Video Cameras (DVC), PDA's and other portable digital equipment
- Portable telephones and wireless LAN

### Part Numbering Table



### Dimension Table in millimeters (inches)



| EIA Case Code | Metric Dim. Code | L Length (inches)          | W Width (inches)            | T Thickness Maximum (inches) | E (inches)                  |
|---------------|------------------|----------------------------|-----------------------------|------------------------------|-----------------------------|
| 0603          | 1608             | 1.6 ±0.1<br>(0.063 ±0.004) | 0.8 ±0.1<br>(0.031 ±0.004)  | 0.8 ±0.1<br>(0.031 ±0.004)   | 0.35 ±0.2<br>(0.014 ±0.008) |
| 0805          | 2012             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.25 ±0.2<br>(0.049 ±0.008) | 1.25 ±0.2<br>(0.049 ±0.008)  | 0.5 ±0.2<br>(0.02 ±0.008)   |
| 0806          | 2016             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.2<br>(0.02 ±0.008)   |
| 1007          | 2518             | 2.5 ±0.2<br>(0.098 ±0.008) | 1.8 ±0.2<br>(0.072 ±0.008)  | 1.8 ±0.2<br>(0.072 ±0.008)   | 0.5 ±0.2<br>(0.02 ±0.008)   |
| 1207          | 3218             | 3.2 ±0.2<br>(0.128 ±0.008) | 1.8 ±0.2<br>(0.072 ±0.008)  | 1.8 ±0.2<br>(0.072 ±0.008)   | 0.6 ±0.2<br>(0.024 ±0.008)  |

# Wire Wound Chip Inductors - L-PWS, L-PWF, L-PWI, L-PWR Series

## 0805 Case Size Standard Type (L-PWS Series)

| Ordering Code   | Inductance ( $\mu\text{H}$ ) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance ( $\Omega$ ) ( $\pm 30\%$ ) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|-----------------|------------------------------|----------------------|---------------------------------------|---|----------------------------|---------------------------|--------------------------------|
| L0805C1R0MPWST  | 1.0                          | $\pm 20\%$           | 100                                   | 0.15                                      | 300                        | 7.96                      | 3,000                          |
| L0805C2R2MPWST  | 2.2                          | $\pm 20\%$           | 80                                    | 0.23                                      | 240                        | 7.96                      | 3,000                          |
| L0805C4R7MPWST  | 4.7                          | $\pm 20\%$           | 45                                    | 0.40                                      | 140                        | 7.96                      | 3,000                          |
| L0805C100MPWST  | 10                           | $\pm 20\%$           | 32                                    | 0.70                                      | 100                        | 2.52                      | 3,000                          |
| L0805R100MPWST* | 10                           | $\pm 20\%$           | 32                                    | 0.50                                      | 100                        | 2.52                      | 3,000                          |
| L0805C220MPWST  | 22                           | $\pm 20\%$           | 15                                    | 1.70                                      | 75                         | 2.52                      | 3,000                          |
| L0805C470MPWST  | 47                           | $\pm 20\%$           | 11                                    | 3.70                                      | 50                         | 2.52                      | 3,000                          |
| L0805C101MPWST  | 100                          | $\pm 20\%$           | 8                                     | 7.00                                      | 30                         | 0.796                     | 3,000                          |

\* Low Rdc type

## 0806 Case Size Standard Type (L-PWS Series)

| Ordering Code  | Inductance ( $\mu\text{H}$ ) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance ( $\Omega$ ) ( $\pm 30\%$ ) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|------------------------------|----------------------|---------------------------------------|---|----------------------------|---------------------------|--------------------------------|
| L0806C1R0MPWST | 1.0                          | $\pm 20\%$           | 100                                   | 0.09                                      | 455                        | 7.96                      | 2,000                          |
| L0806C1R5MPWST | 1.5                          | $\pm 20\%$           | 80                                    | 0.11                                      | 350                        | 7.96                      | 2,000                          |
| L0806C2R2MPWST | 2.2                          | $\pm 20\%$           | 70                                    | 0.13                                      | 315                        | 7.96                      | 2,000                          |
| L0806C3R3MPWST | 3.3                          | $\pm 20\%$           | 55                                    | 0.20                                      | 280                        | 7.96                      | 2,000                          |
| L0806C4R7MPWST | 4.7                          | $\pm 20\%$           | 45                                    | 0.25                                      | 210                        | 7.96                      | 2,000                          |
| L0806C6R8MPWST | 6.8                          | $\pm 20\%$           | 38                                    | 0.35                                      | 175                        | 7.96                      | 2,000                          |
| L0806C100MPWST | 10                           | $\pm 20\%$           | 32                                    | 0.50                                      | 155                        | 2.52                      | 2,000                          |
| L0806C150MPWST | 15                           | $\pm 20\%$           | 28                                    | 0.70                                      | 130                        | 2.52                      | 2,000                          |
| L0806C220MPWST | 22                           | $\pm 20\%$           | 16                                    | 1.00                                      | 105                        | 2.52                      | 2,000                          |
| L0806C330MPWST | 33                           | $\pm 20\%$           | 14                                    | 1.70                                      | 85                         | 2.52                      | 2,000                          |
| L0806C470MPWST | 47                           | $\pm 20\%$           | 11                                    | 2.40                                      | 60                         | 2.52                      | 2,000                          |
| L0806C680MPWST | 68                           | $\pm 20\%$           | 10                                    | 3.00                                      | 50                         | 2.52                      | 2,000                          |
| L0806C101MPWST | 100                          | $\pm 20\%$           | 8                                     | 4.50                                      | 40                         | 0.796                     | 2,000                          |

## 1007 Case Size Standard Type (L-PWS Series)

| Ordering Code  | Inductance ( $\mu\text{H}$ ) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance ( $\Omega$ ) ( $\pm 30\%$ ) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|------------------------------|----------------------|---------------------------------------|---|----------------------------|---------------------------|--------------------------------|
| L1007C1R0MPWST | 1.0                          | $\pm 20\%$           | 100                                   | 0.06                                      | 500                        | 7.96                      | 2,000                          |
| L1007C1R5MPWST | 1.5                          | $\pm 20\%$           | 80                                    | 0.07                                      | 400                        | 7.96                      | 2,000                          |
| L1007C2R2MPWST | 2.2                          | $\pm 20\%$           | 68                                    | 0.09                                      | 340                        | 7.96                      | 2,000                          |
| L1007C3R3MPWST | 3.3                          | $\pm 20\%$           | 54                                    | 0.11                                      | 270                        | 7.96                      | 2,000                          |
| L1007C4R7MPWST | 4.7                          | $\pm 20\%$           | 46                                    | 0.13                                      | 240                        | 7.96                      | 2,000                          |
| L1007R4R7MPWST | 4.7                          | $\pm 20\%$           | 46                                    | 0.10                                      | 235                        | 7.96                      | 2,000                          |
| L1007C6R8MPWST | 6.8                          | $\pm 20\%$           | 38                                    | 0.15                                      | 195                        | 7.96                      | 2,000                          |
| L1007C100MPWST | 10                           | $\pm 20\%$           | 30                                    | 0.25                                      | 165                        | 2.52                      | 2,000                          |
| L1007C150MPWST | 15                           | $\pm 20\%$           | 23                                    | 0.32                                      | 145                        | 2.52                      | 2,000                          |
| L1007C220MPWST | 22                           | $\pm 20\%$           | 19                                    | 0.50                                      | 115                        | 2.52                      | 2,000                          |
| L1007C330MPWST | 33                           | $\pm 20\%$           | 15                                    | 0.70                                      | 95                         | 2.52                      | 2,000                          |
| L1007C470MPWST | 47                           | $\pm 20\%$           | 12                                    | 0.95                                      | 85                         | 2.52                      | 2,000                          |
| L1007C680MPWST | 68                           | $\pm 20\%$           | 9.5                                   | 1.50                                      | 70                         | 2.52                      | 2,000                          |
| L1007C101MPWST | 100                          | $\pm 20\%$           | 9                                     | 2.10                                      | 55                         | 0.796                     | 2,000                          |
| L1007C151MPWST | 150                          | $\pm 20\%$           | 7                                     | 3.20                                      | 45                         | 0.796                     | 2,000                          |
| L1007C221MPWST | 220                          | $\pm 20\%$           | 5.5                                   | 4.50                                      | 35                         | 0.796                     | 2,000                          |
| L1007C331MPWST | 330                          | $\pm 20\%$           | 4.5                                   | 7.00                                      | 30                         | 0.796                     | 2,000                          |
| L1007C471MPWST | 470                          | $\pm 20\%$           | 3.5                                   | 10.00                                     | 25                         | 0.796                     | 2,000                          |
| L1007C681MPWST | 680                          | $\pm 20\%$           | 3                                     | 17.00                                     | 20                         | 0.796                     | 2,000                          |
| L1007C102MPWST | 1000                         | $\pm 20\%$           | 2.4                                   | 24.00                                     | 15                         | 0.252                     | 2,000                          |

### 1207 Case Size Standard Type (L-PWS Series)

| Ordering Code    | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|------------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L1207C1R0MPWST   | 1.0             | ±20%                 | 100                                   | 0.06                     | 1075                       | 7.96                      | 2,000                          |
| L1207C1R5MPWST   | 1.5             | ±20%                 | 80                                    | 0.07                     | 860                        | 7.96                      | 2,000                          |
| L1207C2R2MPWST   | 2.2             | ±20%                 | 68                                    | 0.09                     | 775                        | 7.96                      | 2,000                          |
| L1207C3R3MPWST   | 3.3             | ±20%                 | 54                                    | 0.11                     | 560                        | 7.96                      | 2,000                          |
| L1207C4R7MPWST   | 4.7             | ±20%                 | 41                                    | 0.13                     | 550                        | 7.96                      | 2,000                          |
| L1207C6R8MPWST   | 6.8             | ±20%                 | 40                                    | 0.17                     | 380                        | 7.96                      | 2,000                          |
| L1207C100( )PWST | 10              | K=±10%, M=±20%       | 30                                    | 0.25                     | 340                        | 2.52                      | 2,000                          |
| L1207C150( )PWST | 15              | K=±10%, M=±20%       | 25                                    | 0.32                     | 300                        | 2.52                      | 2,000                          |
| L1207C220( )PWST | 22              | K=±10%, M=±20%       | 19                                    | 0.49                     | 255                        | 2.52                      | 2,000                          |
| L1207C330( )PWST | 33              | K=±10%, M=±20%       | 15                                    | 0.75                     | 215                        | 2.52                      | 2,000                          |
| L1207C470( )PWST | 47              | K=±10%, M=±20%       | 12                                    | 0.92                     | 205                        | 2.52                      | 2,000                          |
| L1207C680( )PWST | 68              | K=±10%, M=±20%       | 11                                    | 1.49                     | 145                        | 2.52                      | 2,000                          |
| L1207C101( )PWST | 100             | K=±10%, M=±20%       | 8                                     | 2.40                     | 140                        | 0.796                     | 2,000                          |
| L1207C151( )PWST | 150             | K=±10%, M=±20%       | 7                                     | 3.20                     | 105                        | 0.796                     | 2,000                          |
| L1207C221( )PWST | 220             | K=±10%, M=±20%       | 5                                     | 5.40                     | 80                         | 0.796                     | 2,000                          |
| L1207C331( )PWST | 330             | K=±10%, M=±20%       | 4                                     | 7.00                     | 65                         | 0.796                     | 2,000                          |
| L1207C471( )PWST | 470             | K=±10%, M=±20%       | 3.5                                   | 14.00                    | 54                         | 0.796                     | 2,000                          |
| L1207C681( )PWST | 680             | K=±10%, M=±20%       | 3                                     | 17.00                    | 45                         | 0.796                     | 2,000                          |
| L1207C102( )PWST | 1000            | K=±10%, M=±20%       | 2.4                                   | 27.00                    | 39                         | 0.252                     | 2,000                          |

( ) - Insert Inductance Tolerance Code (K or M)

### 0603 Case Size Standard Type (L-PWF Series - Bottom Surface Electrodes)

| Ordering Code    | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|------------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L0603B1R0MPWFT   | 1.0             | ±20%                 | 100                                   | 0.19                     | 620                        | 7.96                      | 3,000                          |
| L0603B2R2MPWFT   | 2.2             | ±20%                 | 70                                    | 0.33                     | 430                        | 7.96                      | 3,000                          |
| L0603B4R7MPWFT   | 4.7             | ±20%                 | 45                                    | 0.50                     | 295                        | 7.96                      | 3,000                          |
| L0603B100( )PWFT | 10              | K=±10%, M=±20%       | 40                                    | 1.20                     | 200                        | 2.52                      | 3,000                          |
| L0603B220( )PWFT | 22              | K=±10%, M=±20%       | 16                                    | 3.70                     | 130                        | 2.52                      | 3,000                          |
| L0603B470( )PWFT | 47              | K=±10%, M=±20%       | 11                                    | 5.80                     | 90                         | 2.52                      | 3,000                          |

( ) - Insert Inductance Tolerance Code (K or M)

### 0805 Case Size High Current Type (L-PWI Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L0805C1R0MPWIT | 1.0             | ±20%                 | 100                                   | 0.19                     | 620                        | 7.96                      | 3,000                          |
| L0805C2R2MPWIT | 2.2             | ±20%                 | 70                                    | 0.33                     | 430                        | 7.96                      | 3,000                          |
| L0805C4R7MPWIT | 4.7             | ±20%                 | 45                                    | 0.50                     | 295                        | 7.96                      | 3,000                          |
| L0805C100MPWIT | 10              | ±20%                 | 40                                    | 1.20                     | 200                        | 2.52                      | 3,000                          |
| L0805C220MPWIT | 22              | ±20%                 | 16                                    | 3.70                     | 130                        | 2.52                      | 3,000                          |
| L0805C470MPWIT | 47              | ±20%                 | 11                                    | 5.80                     | 90                         | 2.52                      | 3,000                          |

### 0806 Case Size High Current Type (L-PWI Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L0806C1R0MPWIT | 1.0             | ±20%                 | 100                                   | 0.10                     | 690                        | 7.96                      | 2,000                          |
| L0806C1R5MPWIT | 1.5             | ±20%                 | 80                                    | 0.15                     | 600                        | 7.96                      | 2,000                          |
| L0806C2R2MPWIT | 2.2             | ±20%                 | 70                                    | 0.20                     | 520                        | 7.96                      | 2,000                          |
| L0806C3R3MPWIT | 3.3             | ±20%                 | 55                                    | 0.27                     | 410                        | 7.96                      | 2,000                          |
| L0806C4R7MPWIT | 4.7             | ±20%                 | 45                                    | 0.37                     | 355                        | 7.96                      | 2,000                          |
| L0806C6R8MPWIT | 6.8             | ±20%                 | 38                                    | 0.59                     | 290                        | 7.96                      | 2,000                          |
| L0806C100MPWIT | 10              | ±20%                 | 32                                    | 0.82                     | 245                        | 2.52                      | 2,000                          |
| L0806C150MPWIT | 15              | ±20%                 | 28                                    | 1.20                     | 200                        | 2.52                      | 2,000                          |
| L0806C220MPWIT | 22              | ±20%                 | 16                                    | 1.80                     | 165                        | 2.52                      | 2,000                          |
| L0806C330MPWIT | 33              | ±20%                 | 14                                    | 2.80                     | 135                        | 2.52                      | 2,000                          |
| L0806C470MPWIT | 47              | ±20%                 | 11                                    | 4.30                     | 110                        | 2.52                      | 2,000                          |
| L0806C680MPWIT | 68              | ±20%                 | 10                                    | 7.00                     | 95                         | 2.52                      | 2,000                          |
| L0806C101MPWIT | 100             | ±20%                 | 8                                     | 8.00                     | 75                         | 0.796                     | 2,000                          |

# Wire Wound Chip Inductors - L-PWS, L-PWF, L-PWI, L-PWR Series

## 1007 Case Size High Current Type (L-PWI Series)

| Ordering Code   | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|-----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L1007C1R0MPWIT  | 1.0             | ±20%                 | 100                                   | 0.08                     | 775                        | 7.96                      | 2,000                          |
| L1007R1R0MPWIT* | 1.0             | ±20%                 | 100                                   | 0.065                    | 890                        | 7.96                      | 2,000                          |
| L1007C1R5MPWIT  | 1.5             | ±20%                 | 80                                    | 0.11                     | 660                        | 7.96                      | 2,000                          |
| L1007C2R2MPWIT  | 2.2             | ±20%                 | 68                                    | 0.13                     | 600                        | 7.96                      | 2,000                          |
| L1007C3R3MPWIT  | 3.3             | ±20%                 | 54                                    | 0.16                     | 500                        | 7.96                      | 2,000                          |
| L1007C4R7MPWIT  | 4.7             | ±20%                 | 41                                    | 0.20                     | 430                        | 7.96                      | 2,000                          |
| L1007C6R8MPWIT  | 6.8             | ±20%                 | 38                                    | 0.30                     | 360                        | 7.96                      | 2,000                          |
| L1007C100MPWIT  | 10              | ±20%                 | 30                                    | 0.36                     | 300                        | 2.52                      | 2,000                          |
| L1007C150MPWIT  | 15              | ±20%                 | 23                                    | 0.65                     | 250                        | 2.52                      | 2,000                          |
| L1007C220MPWIT  | 22              | ±20%                 | 19                                    | 0.77                     | 210                        | 2.52                      | 2,000                          |
| L1007C330MPWIT  | 33              | ±20%                 | 15                                    | 1.50                     | 170                        | 2.52                      | 2,000                          |
| L1007C470MPWIT  | 47              | ±20%                 | 12                                    | 1.90                     | 150                        | 2.52                      | 2,000                          |
| L1007C680MPWIT  | 68              | ±20%                 | 9.5                                   | 2.80                     | 120                        | 2.52                      | 2,000                          |
| L1007C101MPWIT  | 100             | ±20%                 | 9.0                                   | 3.70                     | 100                        | 0.796                     | 2,000                          |
| L1007C151MPWIT  | 150             | ±20%                 | 7.0                                   | 6.10                     | 85                         | 0.796                     | 2,000                          |
| L1007C221MPWIT  | 220             | ±20%                 | 5.5                                   | 8.40                     | 70                         | 0.796                     | 2,000                          |
| L1007C331MPWIT  | 330             | ±20%                 | 4.5                                   | 12.30                    | 60                         | 0.796                     | 2,000                          |
| L1007C471MPWIT  | 470             | ±20%                 | 3.5                                   | 22.00                    | 45                         | 0.796                     | 2,000                          |
| L1007C681MPWIT  | 680             | ±20%                 | 3.0                                   | 28.00                    | 35                         | 0.796                     | 2,000                          |

\* Low Rdc Type

## 0805 Case Size Low Rdc Type (L-PWR Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L0805R1R0MPWRT | 1.0             | ±20%                 | 100                                   | 0.07                     | 200                        | 7.96                      | 3,000                          |
| L0805R2R2MPWRT | 2.2             | ±20%                 | 80                                    | 0.13                     | 175                        | 7.96                      | 3,000                          |
| L0805R4R7MPWRT | 4.7             | ±20%                 | 45                                    | 0.24                     | 150                        | 7.96                      | 3,000                          |
| L0805R100MPWRT | 10              | ±20%                 | 32                                    | 0.36                     | 125                        | 2.52                      | 3,000                          |
| L0805R220MPWRT | 22              | ±20%                 | 16                                    | 1.00                     | 100                        | 2.52                      | 3,000                          |
| L0805R470MPWRT | 47              | ±20%                 | 11                                    | 1.70                     | 75                         | 2.52                      | 3,000                          |
| L0805R101MPWRT | 100             | ±20%                 | 8                                     | 4.00                     | 50                         | 0.796                     | 3,000                          |

## 1007 Case Size Low Rdc Type (L-PWR Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|---------------------------|--------------------------------|
| L1007R1R0MPWRT | 1.0             | ±20%                 | 100                                   | 0.045                    | 400                        | 7.96                      | 2,000                          |
| L1007R2R2MPWRT | 2.2             | ±20%                 | 68                                    | 0.07                     | 280                        | 7.96                      | 2,000                          |
| L1007R4R7MPWRT | 4.7             | ±20%                 | 45                                    | 0.1                      | 200                        | 7.96                      | 2,000                          |
| L1007R100MPWRT | 10              | ±20%                 | 30                                    | 0.19                     | 180                        | 2.52                      | 2,000                          |
| L1007R220MPWRT | 22              | ±20%                 | 19                                    | 0.44                     | 120                        | 2.52                      | 2,000                          |
| L1007R470MPWRT | 47              | ±20%                 | 11                                    | 0.84                     | 95                         | 2.52                      | 2,000                          |
| L1007R101MPWRT | 100             | ±20%                 | 9                                     | 1.89                     | 75                         | 0.796                     | 2,000                          |

## Wire Wound Chip Inductors - L-DWS/L-DWI/L-DWL/L-DWF Series

**Features:**

- Small size wound chip inductor with high current
- Dimension without directional influence on mountability and characteristics

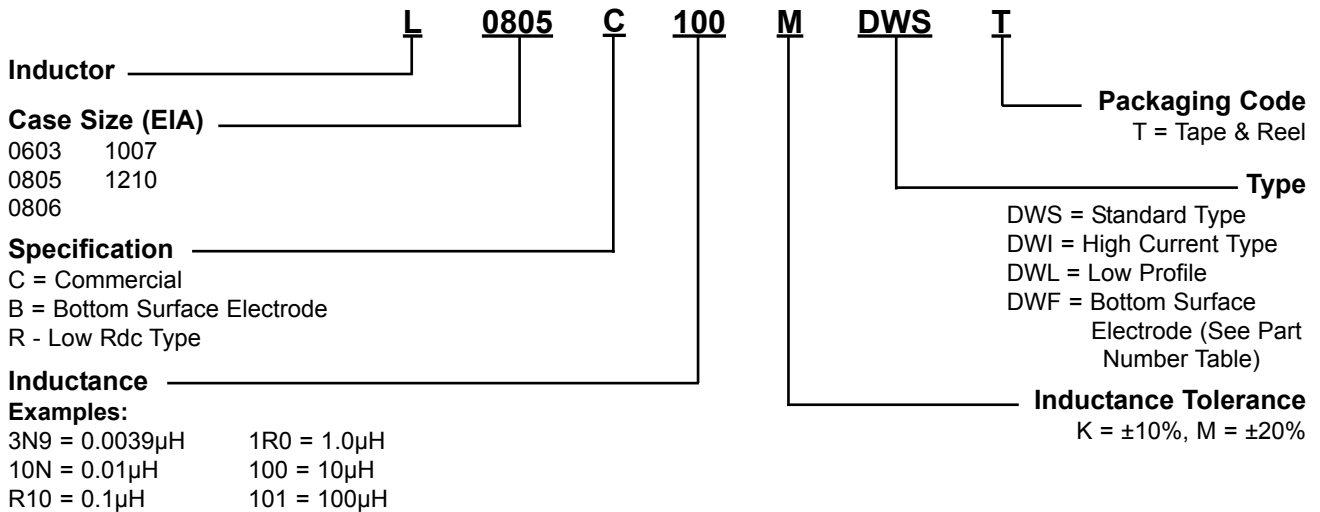
**Operating Temperature:**

- -1 °C to +105°C (including self-generated heat)

**Applications:**

- Digital Still Cameras (DSC), Digital Video Cameras (DVC), PDA's and other portable digital equipment
- For DC-DC converter circuit

### Part Numbering Table



### Dimension Table in millimeters (inches)



| EIA Case Size | Metric Dim. Code | L Length (inches)          | W Width (inches)            | T Thickness Maximum (inches) | E (inches)                  |
|---------------|------------------|----------------------------|-----------------------------|------------------------------|-----------------------------|
| 0603          | 1608             | 1.6 ±0.2<br>(0.063 ±0.008) | 0.8 ±0.2<br>(0.031 ±0.008)  | 0.8 ±0.2<br>(0.031 ±0.008)   | 0.4 ±0.15<br>(0.015 ±0.006) |
| 0805          | 2012             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.25 ±0.2<br>(0.049 ±0.008) | 1.25 ±0.2<br>(0.049 ±0.008)  | 0.5 ±0.2<br>(0.02 ±0.008)   |
| 0806          | 2016             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.2<br>(0.02 ±0.008)   |
| 1007          | 2518             | 2.5 ±0.2<br>(0.098 ±0.008) | 1.8 ±0.2<br>(0.071 ±0.008)  | 1.8 ±0.2<br>(0.071 ±0.008)   | 0.5 ±0.2<br>(0.02 ±0.008)   |
| 1210          | 3225             | 3.2 ±0.2<br>(0.126 ±0.008) | 2.5 ±0.2<br>(0.098 ±0.008)  | 2.5 ±0.2<br>(0.098 ±0.008)   | 0.6 ±0.3<br>(0.024 ±0.012)  |



# Wire Wound Chip Inductors - L-DWS, L-DWI, L-DWL, L-DWF Series

## 0805 Case Size Standard Type (L-DWS Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |     | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|-----|---------------------------|--------------------------------|
|                |                 |                      |                                       |                          | 1                          | 2   |                           |                                |
| L0805C2R2MDWST | 2.2             | ±20%                 | 80                                    | 0.23                     | 410                        | 770 | 7.96                      | 3,000                          |
| L0805C4R7MDWST | 4.7             | ±20%                 | 45                                    | 0.40                     | 300                        | 580 | 7.96                      | 3,000                          |
| L0805R100MDWST | 10              | ±20%                 | 32                                    | 0.50                     | 200                        | 520 | 2.52                      | 3,000                          |
| L0805C220MDWST | 22              | ±20%                 | 16                                    | 1.70                     | 135                        | 280 | 2.52                      | 3,000                          |
| L0805C470MDWST | 47              | ±20%                 | 11                                    | 3.70                     | 90                         | 190 | 2.52                      | 3,000                          |

## 0806 Case Size Standard Type (L-DWS Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |      | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|------|---------------------------|--------------------------------|
|                |                 |                      |                                       |                          | 1                          | 2    |                           |                                |
| L0806C2R2MDWST | 2.2             | ±20%                 | 70                                    | 0.13                     | 510                        | 1000 | 7.96                      | 2,000                          |
| L0806C4R7MDWST | 4.7             | ±20%                 | 45                                    | 0.25                     | 340                        | 740  | 7.96                      | 2,000                          |
| L0806C100MDWST | 10              | ±20%                 | 32                                    | 0.50                     | 250                        | 520  | 2.52                      | 2,000                          |
| L0806C220MDWST | 22              | ±20%                 | 16                                    | 1.00                     | 165                        | 370  | 2.52                      | 2,000                          |
| L0806C470MDWST | 47              | ±20%                 | 11                                    | 2.40                     | 110                        | 240  | 2.52                      | 2,000                          |

## 1007 Case Size Standard Type (L-DWS Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |      | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|------|---------------------------|--------------------------------|
|                |                 |                      |                                       |                          | 1                          | 2    |                           |                                |
| L1007C2R2MDWST | 2.2             | ±20%                 | 68                                    | 0.09                     | 510                        | 1300 | 7.96                      | 2,000                          |
| L1007C4R7MDWST | 4.7             | ±20%                 | 46                                    | 0.13                     | 340                        | 1100 | 7.96                      | 2,000                          |
| L1007C100MDWST | 10              | ±20%                 | 30                                    | 0.25                     | 250                        | 820  | 2.52                      | 2,000                          |
| L1007C220MDWST | 22              | ±20%                 | 19                                    | 0.50                     | 165                        | 580  | 2.52                      | 2,000                          |
| L1007C470MDWST | 47              | ±20%                 | 12                                    | 0.95                     | 110                        | 420  | 2.52                      | 2,000                          |

## 0805 Case Size High Current Type (L-DWI Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |     | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|-----|---------------------------|--------------------------------|
|                |                 |                      |                                       |                          | 1                          | 2   |                           |                                |
| L0805C1R0MDWIT | 1.0             | ±20%                 | 100                                   | 0.19                     | 700                        | 840 | 7.96                      | 3,000                          |
| L0805C2R2MDWIT | 2.2             | ±20%                 | 70                                    | 0.33                     | 530                        | 640 | 7.96                      | 3,000                          |
| L0805C4R7MDWIT | 4.7             | ±20%                 | 45                                    | 0.50                     | 360                        | 520 | 7.96                      | 3,000                          |
| L0805C100MDWIT | 10              | ±20%                 | 40                                    | 1.20                     | 240                        | 340 | 2.52                      | 3,000                          |
| L0805C220MDWIT | 22              | ±20%                 | 16                                    | 3.70                     | 170                        | 190 | 2.52                      | 3,000                          |
| L0805C470MDWIT | 47              | ±20%                 | 11                                    | 5.80                     | 120                        | 150 | 2.52                      | 3,000                          |

## 0806 Case Size High Current Type (L-DWI Series)

| Ordering Code    | Inductance (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |      | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|------------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|------|---------------------------|--------------------------------|
|                  |                 |                      |                                       |                          | 1                          | 2    |                           |                                |
| L0806C1R0MDWIT   | 1.0             | ±20%                 | 100                                   | 0.1                      | 1100                       | 1100 | 7.96                      | 3,000                          |
| L0806C1R5MDWIT   | 1.5             | ±20%                 | 80                                    | 0.15                     | 1000                       | 1000 | 7.96                      | 3,000                          |
| L0806C2R2MDWIT   | 2.2             | ±20%                 | 70                                    | 0.20                     | 750                        | 720  | 7.96                      | 3,000                          |
| L0806C3R3MDWIT   | 3.3             | ±20%                 | 55                                    | 0.27                     | 600                        | 610  | 7.96                      | 3,000                          |
| L0806C4R7MDWIT   | 4.7             | ±20%                 | 45                                    | 0.37                     | 550                        | 530  | 7.96                      | 3,000                          |
| L0806C6R8MDWIT   | 6.8             | ±20%                 | 38                                    | 0.59                     | 450                        | 450  | 7.96                      | 3,000                          |
| L0806C100( )DWIT | 10              | K=±10%, M=±20%       | 32                                    | 0.82                     | 380                        | 350  | 2.52                      | 3,000                          |
| L0806C150( )DWIT | 15              | K=±10%, M=±20%       | 28                                    | 1.2                      | 300                        | 300  | 2.52                      | 3,000                          |
| L0806C220( )DWIT | 22              | K=±10%, M=±20%       | 16                                    | 1.8                      | 250                        | 240  | 2.52                      | 3,000                          |
| L0806C330( )DWIT | 33              | K=±10%, M=±20%       | 14                                    | 2.8                      | 220                        | 220  | 2.52                      | 3,000                          |
| L0806C470( )DWIT | 47              | K=±10%, M=±20%       | 11                                    | 4.3                      | 150                        | 150  | 2.52                      | 3,000                          |
| L0806C680( )DWIT | 68              | K=±10%, M=±20%       | 10                                    | 7                        | 130                        | 130  | 2.52                      | 3,000                          |
| L0806C101( )DWIT | 100             | K=±10%, M=±20%       | 8                                     | 8                        | 110                        | 110  | 0.796                     | 3,000                          |

( ) - Insert Inductance Tolerance Code (K or M)

\*For rated current of ordinary small power choke coils, please refer to the rated current (1) in the above table.

\*For current (2) is the current for instantaneous flow such as plunging current of DC/DC converter.

In case of usage in the circuit where large current may be semicontinuously applied over 5 minutes with auto recovery circuit, etc, please contact our sales section before practical application.

Rated current (1):Current value to guarantee -30% of nominal inductance

Rated current (2):Current value to guarantee component temperature within ΔT = 40°C with current flow. (It's not the current to guarantee the inductance value)

### 1007 Case Size High Current Type (L-DWI Series)

| Ordering Code  | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |      | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|------|---------------------------|--------------------------------|
|                |                 |                      |                                       |                          | 1                          | 2    |                           |                                |
| L1007C1R0MDWIT | 1.0             | ±20%                 | 100                                   | 0.08                     | 1000                       | 1200 | 7.96                      | 2,000                          |
| L1007C2R2MDWIT | 2.2             | ±20%                 | 68                                    | 0.13                     | 890                        | 1100 | 7.96                      | 2,000                          |
| L1007C4R7MDWIT | 4.7             | ±20%                 | 41                                    | 0.20                     | 680                        | 920  | 7.96                      | 2,000                          |
| L1007C100MDWIT | 10              | ±20%                 | 30                                    | 0.36                     | 480                        | 680  | 2.52                      | 2,000                          |
| L1007C220MDWIT | 22              | ±20%                 | 19                                    | 0.77                     | 320                        | 460  | 2.52                      | 2,000                          |
| L1007C470MDWIT | 47              | ±20%                 | 12                                    | 1.90                     | 240                        | 290  | 2.52                      | 2,000                          |
| L1007C101MDWIT | 100             | ±20%                 | 9                                     | 3.7                      | 160                        | 170  | 0.796                     | 2,000                          |
| L1007C220MDWIT | 220             | ±20%                 | 5.5                                   | 8.4                      | 115                        | 110  | 0.796                     | 2,000                          |
| L1007C470MDWIT | 470             | ±20%                 | 3.5                                   | 22                       | 80                         | 70   | 0.796                     | 2,000                          |
| L1007C681MDWIT | 680             | ±20%                 | 3                                     | 28                       | 65                         | 60   | 0.796                     | 2,000                          |

### 1210 Case Size High Current Low Rdc Type (L-DWI Series)

| Ordering Code    | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |      | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|------------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|------|---------------------------|--------------------------------|
|                  |                 |                      |                                       |                          | 1                          | 2    |                           |                                |
| L1210R1R0MDWIT   | 1.0             | ±20%                 | 250                                   | 0.055                    | 2000                       | 1440 | 0.1                       | 1,000                          |
| L1210R1R5MDWIT   | 1.5             | ±20%                 | 220                                   | 0.06                     | 2000                       | 1310 | 0.1                       | 1,000                          |
| L1210R2R2MDWIT   | 2.2             | ±20%                 | 190                                   | 0.08                     | 2000                       | 1130 | 0.1                       | 1,000                          |
| L1210R3R3MDWIT   | 3.3             | ±20%                 | 160                                   | 0.095                    | 1800                       | 1040 | 0.1                       | 1,000                          |
| L1210R4R7MDWIT   | 4.7             | ±20%                 | 70                                    | 0.1                      | 1250                       | 1010 | 0.1                       | 1,000                          |
| L1210R6R8MDWIT   | 6.8             | ±20%                 | 50                                    | 0.12                     | 930                        | 940  | 0.1                       | 1,000                          |
| L1210R100( )DWIT | 10              | K=±10%, M=±20%       | 23                                    | 0.133                    | 900                        | 900  | 0.1                       | 1,000                          |
| L1210R150( )DWIT | 15              | K=±10%, M=±20%       | 20                                    | 0.195                    | 730                        | 850  | 0.1                       | 1,000                          |
| L1210R220( )DWIT | 22              | K=±10%, M=±20%       | 17                                    | 0.27                     | 620                        | 780  | 0.1                       | 1,000                          |
| L1210R330( )DWIT | 33              | K=±10%, M=±20%       | 13                                    | 0.41                     | 500                        | 570  | 0.1                       | 1,000                          |
| L1210R470( )DWIT | 47              | K=±10%, M=±20%       | 10                                    | 0.67                     | 390                        | 480  | 0.1                       | 1,000                          |
| L1210R680( )DWIT | 68              | K=±10%, M=±20%       | 8                                     | 1                        | 320                        | 410  | 0.1                       | 1,000                          |
| L1210R101( )DWIT | 100             | K=±10%, M=±20%       | 6                                     | 1.4                      | 270                        | 340  | 0.1                       | 1,000                          |

( ) - Insert Inductance Tolerance Code (K or M)

### 0805 Case Size Low Profile Type (L-DWL Series)

| Ordering Code  | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |     | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|-----|---------------------------|--------------------------------|
|                |                 |                      |                                       |                          | 1                          | 2   |                           |                                |
| L0805C4R7MDWLT | 4.7             | ±20%                 | 45                                    | 0.66                     | 275                        | 490 | 0.10                      | 4,000                          |
| L0805C100MDWLT | 10              | ±20%                 | 32                                    | 1.00                     | 205                        | 370 | 0.10                      | 4,000                          |
| L0805C470MDWLT | 47              | ±20%                 | 11                                    | 4.20                     | 100                        | 140 | 0.10                      | 4,000                          |

### 0603 Case Size Power, Bottom Surface Electrode Type (L-DWF 1608 Series)

| Ordering Code    | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) |     | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|------------------|-----------------|----------------------|---------------------------------------|--------------------------|----------------------------|-----|---------------------------|--------------------------------|
|                  |                 |                      |                                       |                          | 1                          | 2   |                           |                                |
| L0603B1R0MDWFT   | 1.0             | ±20%                 | 100                                   | 0.09                     | 290                        | 770 | 7.96                      | 2,000                          |
| L0603B2R2MDWFT   | 2.2             | ±20%                 | 80                                    | 0.17                     | 190                        | 560 | 7.96                      | 2,000                          |
| L0603B4R7MDWFT   | 4.7             | ±20%                 | 45                                    | 0.24                     | 145                        | 470 | 7.96                      | 2,000                          |
| L0603B100( )DWFT | 10              | K=±10%, M=±20%       | 32                                    | 0.36                     | 115                        | 380 | 2.52                      | 2,000                          |
| L0603B220( )DWFT | 22              | K=±10%, M=±20%       | 16                                    | 1.00                     | 70                         | 230 | 2.52                      | 2,000                          |
| L0603B470( )DWFT | 47              | K=±10%, M=±20%       | 11                                    | 2.5                      | 50                         | 140 | 2.52                      | 2,000                          |

( ) - Insert Inductance Tolerance Code (K or M)

\*For rated current of ordinary small power choke coils, please refer to the rated current (1) in the above table.

\*For current (2) is the current for instantaneous flow such as plunging current of DC/DC converter.

In case of usage in the circuit where large current may be semicontinuously applied over 5 minutes with auto recovery circuit, etc, please contact our sales section before practical application.

Rated current (1): Current value to guarantee -30% of nominal inductance (at 20°C)

Rated current (2): Current value to guarantee component temperature within ΔT = 40°C with current flow. (It's not the current to guarantee the inductance value)

## Multilayer Chip Inductors for High Frequency - L-RMS Series

### Features:

- Multilayer inductor made of advanced ceramics with low resistivity silver used as internal conductors, provides excellent Q and SRF characteristics
- Multilayer block structure ensures outstanding reliability, high productivity and excellent product quality

### Operating Temperature:

- 0201: -55°C to +125°C
- 0402: -55°C to +125°C
- 0805: -40°C to +85°C

### Applications:

- Designed to address surface mount inductor needs for applications above 100MHz
- Mobile phones and pagers
- High frequency circuits
- EMI counter measures in high frequency circuits

## Part Numbering Table



## Dimension Table in millimeters (inches)



| EIA Case Size | Metric Dim. Code | L Length (inches)                      | W Width (inches)            | T Thickness Maximum (inches)  | E (inches)                   |
|---------------|------------------|--|-----------------------------|---|------------------------------|
| 0201          | 0603             | 0.6 ±0.03<br>(0.024 ±0.001)            | 0.3 ±0.03<br>(0.012 ±0.001) | 0.3 ±0.03<br>(0.012 ±0.001)   | 0.15 ±0.05<br>(0.006 ±0.002) |
| 0402          | 1005             | 1.0 ±0.05<br>(0.039 ±0.002)            | 0.5 ±0.05<br>(0.02 ±0.002)  | 0.5 ±0.05<br>(0.02 ±0.002)  | 0.25 ±0.10<br>(0.01 ±0.004)  |
| 0603          | 1608             | 1.6 ±0.15<br>(0.063 ±0.006)            | 0.8 ±0.15<br>(0.031 ±0.006) | 0.8 ±0.15<br>(0.031 ±0.006)   | 0.3 ±0.2<br>(0.012 ±0.008)   |
| 0805          | 2125             | 2.0 +0.3/-0.1<br>(0.079 +0.012/-0.004) | 1.25 ±0.2<br>(0.049 ±0.008) | 0.85 ±0.2<br>1.0 +0.2/-0.3<br>(0.033 ±0.008)<br>(0.039 +0.008/-0.012) | 0.5 ±0.3<br>(0.020 ±0.012)   |

### 0201 Case Size Multilayer Chip Inductors for High Frequency (L-RMS Series)

| Ordering Code  | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q       |     |     |     |      | Self-resonant Frequency (MHz) |        | DC Resistance ( $\Omega$ ) |       | Maximum Rated Current (mA) | Thickness mm (inches)               | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|--------|---------------------------|-----------------|-----|-----|-----|------|-------------------------------|--------|----------------------------|-------|----------------------------|-------------------------------------|--------------------------------|
|                |                 |                      |        |                           | Frequency (MHz) |     |     |     |      | min.                          | typ.   | max.                       | typ.  |                            |                                     |                                |
|                |                 |                      |        |                           | 100             | 300 | 500 | 800 | 1000 |                               |        |                            |       |                            |                                     |                                |
| L0201C1N0SRMST | 1.0             | $\pm 0.3nH$          | 4      | 100                       | 6               | 12  | 17  | 22  | 27   | 10000                         | >13000 | 0.14                       | 0.088 | 250                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C1N2SRMST | 1.2             | $\pm 0.3nH$          | 4      | 100                       | 6               | 12  | 16  | 21  | 25   | 10000                         | >13000 | 0.14                       | 0.089 | 250                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C1N5SRMST | 1.5             | $\pm 0.3nH$          | 4      | 100                       | 6               | 12  | 15  | 20  | 23   | 10000                         | >13000 | 0.18                       | 0.11  | 230                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C1N8SRMST | 1.8             | $\pm 0.3nH$          | 4      | 100                       | 6               | 12  | 15  | 20  | 23   | 10000                         | >13000 | 0.19                       | 0.12  | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C2N2SRMST | 2.2             | $\pm 0.3nH$          | 4      | 100                       | 6               | 12  | 15  | 20  | 22   | 8800                          | 12500  | 0.22                       | 0.14  | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C2N7SRMST | 2.7             | $\pm 0.3nH$          | 5      | 100                       | 7               | 12  | 15  | 20  | 22   | 7700                          | 11000  | 0.25                       | 0.16  | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C3N3SRMST | 3.3             | $\pm 0.3nH$          | 5      | 100                       | 7               | 12  | 15  | 20  | 22   | 6700                          | 9600   | 0.30                       | 0.19  | 180                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C3N9SRMST | 3.9             | $\pm 0.3nH$          | 5      | 100                       | 7               | 12  | 15  | 20  | 22   | 6000                          | 8600   | 0.30                       | 0.20  | 170                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C4N7SRMST | 4.7             | $\pm 0.3nH$          | 5      | 100                       | 7               | 12  | 15  | 19  | 21   | 5300                          | 7600   | 0.40                       | 0.25  | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C5N6SRMST | 5.6             | $\pm 0.3nH$          | 5      | 100                       | 7               | 12  | 15  | 19  | 21   | 4600                          | 6600   | 0.40                       | 0.25  | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C6N8JRMST | 6.8             | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 14  | 18  | 20   | 3900                          | 5600   | 0.48                       | 0.30  | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C8N2JRMST | 8.2             | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 14  | 18  | 19   | 3400                          | 4900   | 0.55                       | 0.34  | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C10NJRMST | 10              | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 14  | 17  | 18   | 2900                          | 4200   | 0.63                       | 0.39  | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C12NJRMST | 12              | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 14  | 17  | 18   | 2700                          | 3800   | 0.70                       | 0.45  | 100                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C15NJRMST | 15              | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 13  | 16  | 17   | 2300                          | 3300   | 0.80                       | 0.50  | 100                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C18NJRMST | 18              | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 13  | 16  | 17   | 2100                          | 3000   | 0.90                       | 0.57  | 100                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C22NJRMST | 22              | $\pm 5\%$            | 5      | 100                       | 7               | 11  | 13  | 15  | 16   | 1800                          | 2600   | 1.20                       | 0.71  | 100                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C27NJRMST | 27              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 12  | 14  | 15   | 1800                          | 2600   | 1.80                       | 1.11  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C33NJRMST | 33              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 12  | 14  | 14   | 1700                          | 2400   | 2.10                       | 1.33  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C39NJRMST | 39              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 12  | 13  | 12   | 1500                          | 2100   | 2.40                       | 1.51  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C47NJRMST | 47              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 11  | 12  | 11   | 1300                          | 1800   | 2.80                       | 1.74  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C56NJRMST | 56              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 11  | 11  | 10   | 1100                          | 1600   | 3.00                       | 1.85  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C68NJRMST | 68              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 11  | 11  | 10   | 1100                          | 1500   | 3.00                       | 2.30  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201C82NJRMST | 82              | $\pm 5\%$            | 4      | 100                       | 6               | 10  | 11  | 10  | 8    | 1000                          | 1400   | 3.50                       | 2.60  | 50                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| L0201CR10JRMST | 100             | $\pm 5\%$            | 4      | 100                       | 6               | 9   | 10  | 9   | 6    | 900                           | 1200   | 4.00                       | 3.00  | 40                         | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |

# Multilayer Chip Inductors - High Frequency - L-RMS Series

## 0402 Case Size Multilayer Chip Inductors for High Frequency (L-RMS Series)

| Ordering Code  | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q       |     |     |     |      | Self-resonant Frequency (MHz) |        | DC Resistance ( $\Omega$ ) |      | Maximum Rated Current (mA) |              | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|--------|---------------------------|-----------------|-----|-----|-----|------|-------------------------------|--------|----------------------------|------|----------------------------|--------------|--------------------------|--------------------------------|
|                |                 |                      |        |                           | Frequency (MHz) |     |     |     |      | min.                          | typ.   | max.                       | typ. | -55° to 125°C              | -55° to 85°C |                          |                                |
|                |                 |                      |        |                           | 100             | 300 | 500 | 800 | 1000 |                               |        |                            |      |                            |              |                          |                                |
| L0402C1N0SRMST | 1.0             | ±0.3nH               | 8      | 100                       | 11              | 25  | 34  | 43  | 52   | 10000                         | >13000 | 0.08                       | 0.04 | 300                        | 900          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1N2SRMST | 1.2             | ±0.3nH               | 8      | 100                       | 11              | 25  | 35  | 44  | 52   | 10000                         | >13000 | 0.09                       | 0.04 | 300                        | 900          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1N5SRMST | 1.5             | ±0.3nH               | 8      | 100                       | 11              | 24  | 33  | 44  | 48   | 6000                          | >13000 | 0.10                       | 0.05 | 300                        | 850          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1N8SRMST | 1.8             | ±0.3nH               | 8      | 100                       | 11              | 23  | 30  | 36  | 42   | 6000                          | 11000  | 0.12                       | 0.06 | 300                        | 700          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C2N0SRMST | 2               | ±0.3nH               | 8      | 100                       | 11              | 21  | 27  | 34  | 39   | 6000                          | 10500  | 0.12                       | 0.06 | 300                        | 700          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C2N2SRMST | 2.2             | ±0.3nH               | 8      | 100                       | 10              | 18  | 25  | 31  | 36   | 6000                          | 10000  | 0.13                       | 0.07 | 300                        | 700          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C2N4SRMST | 2.4             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 6000                          | 9500   | 0.13                       | 0.07 | 300                        | 650          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C2N7SRMST | 2.7             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 34   | 6000                          | 9000   | 0.13                       | 0.08 | 300                        | 650          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C3N0SRMST | 3               | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 6000                          | 8500   | 0.16                       | 0.09 | 300                        | 600          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C3N3SRMST | 3.3             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 6000                          | 8000   | 0.16                       | 0.10 | 300                        | 550          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C3N6SRMST | 3.6             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 5000                          | 7500   | 0.20                       | 0.11 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C3N9SRMST | 3.9             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 4000                          | 7000   | 0.21                       | 0.12 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C4N3SRMST | 4.3             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 35   | 4000                          | 6500   | 0.20                       | 0.12 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C4N7SRMST | 4.7             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 34   | 4000                          | 6000   | 0.21                       | 0.12 | 300                        | 500          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C5N1SRMST | 5.1             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 31  | 34   | 4000                          | 5800   | 0.21                       | 0.13 | 300                        | 450          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C5N6SRMST | 5.6             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 30  | 35   | 4000                          | 5700   | 0.23                       | 0.15 | 300                        | 430          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C6N2SRMST | 6.2             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 30  | 34   | 3900                          | 5600   | 0.25                       | 0.16 | 300                        | 430          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C6N8JRMST | 6.8             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 32   | 3900                          | 5500   | 0.25                       | 0.17 | 300                        | 430          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C7N5JRMST | 7.5             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 32   | 3700                          | 5200   | 0.25                       | 0.18 | 300                        | 400          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C8N2JRMST | 8.2             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 31   | 3600                          | 4900   | 0.28                       | 0.21 | 300                        | 380          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C9N1JRMST | 9.1             | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 31   | 3400                          | 4500   | 0.30                       | 0.22 | 300                        | 360          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C10NJRMST | 10              | ±5%                  | 8      | 100                       | 10              | 18  | 23  | 29  | 31   | 3200                          | 4300   | 0.31                       | 0.23 | 300                        | 340          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C12NJRMST | 12              | ±5%                  | 8      | 100                       | 11              | 18  | 23  | 29  | 31   | 2700                          | 3900   | 0.40                       | 0.28 | 300                        | 330          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C15NJRMST | 15              | ±5%                  | 8      | 100                       | 11              | 18  | 23  | 28  | 30   | 2300                          | 3500   | 0.46                       | 0.31 | 300                        | 320          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C18NJRMST | 18              | ±5%                  | 8      | 100                       | 11              | 18  | 23  | 28  | 30   | 2100                          | 3100   | 0.55                       | 0.35 | 300                        | 310          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C22NJRMST | 22              | ±5%                  | 8      | 100                       | 11              | 17  | 22  | 26  | 27   | 1900                          | 2800   | 0.60                       | 0.42 | 300                        | 300          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C27NJRMST | 27              | ±5%                  | 8      | 100                       | 11              | 17  | 21  | 25  | 26   | 1600                          | 2300   | 0.70                       | 0.47 | 300                        | 300          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C33NJRMST | 33              | ±5%                  | 8      | 100                       | 11              | 16  | 20  | 23  | 22   | 1300                          | 1900   | 0.80                       | 0.50 | 200                        | 250          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C39NJRMST | 39              | ±5%                  | 8      | 100                       | 11              | 16  | 20  | 23  | 21   | 1200                          | 1700   | 0.90                       | 0.52 | 200                        | 250          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C47NJRMST | 47              | ±5%                  | 8      | 100                       | 11              | 16  | 19  | 21  | 18   | 1000                          | 1500   | 1.00                       | 0.58 | 200                        | 230          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C56NJRMST | 56              | ±5%                  | 8      | 100                       | 11              | 16  | 18  | 18  | 16   | 750                           | 1300   | 1.00                       | 0.61 | 200                        | 220          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C68NJRMST | 68              | ±5%                  | 8      | 100                       | 11              | 15  | 17  | 18  | 11   | 750                           | 1200   | 1.20                       | 0.70 | 180                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C82NJRMST | 82              | ±5%                  | 8      | 100                       | 10              | 14  | 16  | 15  | 6    | 600                           | 1100   | 1.30                       | 0.81 | 150                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR10JRMST | 100             | ±5%                  | 8      | 100                       | 10              | 14  | 14  | 12  | -    | 600                           | 1000   | 1.50                       | 0.94 | 150                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR12JRMST | 120             | ±5%                  | 8      | 100                       | 10              | 12  | 10  | -   | -    | 600                           | 800    | 1.60                       | 1.10 | 150                        | 200          | 0.50 ±0.05 (0.02 ±0.002) | 10,000                         |

### 0603 Case Size Multilayer Chip Inductors for High Frequency (L-RMS Series)

| Ordering Code  | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q       |     |     |     |      | Self-resonant Frequency (MHz) |        | DC Resistance (Ω) |       | Maximum Rated Current (mA) | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|--------|---------------------------|-----------------|-----|-----|-----|------|-------------------------------|--------|-------------------|-------|----------------------------|--------------------------|--------------------------------|
|                |                 |                      |        |                           | Frequency (MHz) |     |     |     |      | min.                          | typ.   | max.              | typ.  |                            |                          |                                |
|                |                 |                      |        |                           | 100             | 300 | 500 | 800 | 1000 |                               |        |                   |       |                            |                          |                                |
| L0603C1N0SRMST | 1.0             | ±0.3nH               | 8      | 100                       | 14              | 30  | 40  | 70  | 90   | 10000                         | >13000 | 0.05              | 0.015 | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1N2SRMST | 1.2             | ±0.3nH               | 8      | 100                       | 14              | 30  | 40  | 70  | 90   | 10000                         | >13000 | 0.05              | 0.015 | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1N5SRMST | 1.5             | ±0.3nH               | 8      | 100                       | 14              | 26  | 34  | 47  | 50   | 6000                          | >13000 | 0.10              | 0.03  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1N8SRMST | 1.8             | ±0.3nH               | 8      | 100                       | 10              | 18  | 24  | 30  | 34   | 6000                          | >13000 | 0.10              | 0.06  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C2N2SRMST | 2.2             | ±0.3nH               | 8      | 100                       | 12              | 22  | 29  | 37  | 40   | 6000                          | 12000  | 0.10              | 0.06  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C2N7SRMST | 2.7             | ±0.3nH               | 10     | 100                       | 13              | 24  | 32  | 41  | 45   | 6000                          | 11000  | 0.10              | 0.06  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C3N3SRMST | 3.3             | ±0.3nH               | 10     | 100                       | 14              | 25  | 33  | 42  | 47   | 6000                          | 9000   | 0.12              | 0.06  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C3N9SRMST | 3.9             | ±0.3nH               | 10     | 100                       | 13              | 25  | 33  | 42  | 46   | 6000                          | 8000   | 0.14              | 0.07  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C4N7SRMST | 4.7             | ±0.3nH               | 10     | 100                       | 13              | 25  | 33  | 42  | 47   | 4000                          | 6500   | 0.16              | 0.08  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C5N6SRMST | 5.6             | ±0.3nH               | 10     | 100                       | 14              | 25  | 33  | 42  | 46   | 4000                          | 5800   | 0.18              | 0.09  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C6N8JRMST | 6.8             | ±5%                  | 10     | 100                       | 14              | 25  | 33  | 43  | 47   | 4000                          | 5600   | 0.22              | 0.11  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C8N2JRMST | 8.2             | ±5%                  | 10     | 100                       | 14              | 26  | 34  | 44  | 48   | 3500                          | 5200   | 0.24              | 0.13  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C10NJRMST | 10              | ±5%                  | 12     | 100                       | 14              | 26  | 34  | 43  | 47   | 3400                          | 4600   | 0.26              | 0.16  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C12NJRMST | 12              | ±5%                  | 12     | 100                       | 14              | 27  | 35  | 45  | 49   | 2600                          | 4000   | 0.28              | 0.17  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C15NJRMST | 15              | ±5%                  | 12     | 100                       | 15              | 28  | 37  | 46  | 51   | 2300                          | 3400   | 0.32              | 0.20  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C18NJRMST | 18              | ±5%                  | 12     | 100                       | 15              | 27  | 36  | 44  | 48   | 2000                          | 3000   | 0.35              | 0.21  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C22NJRMST | 22              | ±5%                  | 12     | 100                       | 16              | 28  | 36  | 44  | 47   | 1600                          | 2900   | 0.40              | 0.25  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C27NJRMST | 27              | ±5%                  | 12     | 100                       | 16              | 29  | 37  | 45  | 46   | 1400                          | 2200   | 0.45              | 0.28  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C33NJRMST | 33              | ±5%                  | 12     | 100                       | 17              | 31  | 40  | 46  | 47   | 1200                          | 1800   | 0.55              | 0.35  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C39NJRMST | 39              | ±5%                  | 12     | 100                       | 18              | 31  | 39  | 44  | 44   | 1100                          | 1600   | 0.60              | 0.38  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C47NJRMST | 47              | ±5%                  | 12     | 100                       | 17              | 28  | 34  | 35  | 34   | 900                           | 1600   | 0.70              | 0.45  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C56NJRMST | 56              | ±5%                  | 12     | 100                       | 17              | 28  | 34  | 34  | 31   | 900                           | 1400   | 0.75              | 0.50  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C68NJRMST | 68              | ±5%                  | 12     | 100                       | 18              | 29  | 34  | 30  | 22   | 700                           | 1200   | 0.85              | 0.55  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C82NJRMST | 82              | ±5%                  | 12     | 100                       | 18              | 28  | 33  | 27  | -    | 600                           | 1100   | 0.95              | 0.60  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR10JRMST | 100             | ±5%                  | 12     | 100                       | 18              | 27  | 28  | 16  | -    | 600                           | 1000   | 1.00              | 0.65  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR12JRMST | 120             | ±5%                  | 8      | 50                        | 16              | 24  | 23  | -   | -    | 500                           | 800    | 1.20              | 0.68  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR15JRMST | 150             | ±5%                  | 8      | 50                        | 13              | 19  | 16  | -   | -    | 500                           | 800    | 1.20              | 0.73  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR18JRMST | 180             | ±5%                  | 8      | 50                        | 13              | 18  | 12  | -   | -    | 400                           | 700    | 1.30              | 0.85  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR22JRMST | 220             | ±5%                  | 8      | 50                        | 12              | 16  | -   | -   | -    | 400                           | 600    | 1.50              | 0.95  | 300                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR27JRMST | 270             | ±5%                  | 8      | 50                        | 14              | 15  | -   | -   | -    | 400                           | 550    | 1.90              | 1.34  | 150                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR33JRMST | 330             | ±5%                  | 8      | 50                        | 14              | -   | -   | -   | -    | 350                           | 480    | 2.10              | 1.53  | 150                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR39JRMST | 390             | ±5%                  | 8      | 50                        | 13              | -   | -   | -   | -    | 350                           | 410    | 2.30              | 1.72  | 150                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR47JRMST | 470             | ±5%                  | 8      | 50                        | 13              | -   | -   | -   | -    | 300                           | 360    | 2.60              | 2.04  | 150                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |

# Multilayer Chip Inductors - High Frequency - L-RMS Series

## 0805 Case Size Multilayer Chip Inductors for High Frequency (L-RMS Series)

| Ordering Code  | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q       |     |     |     |      | Self-resonant Frequency (MHz) |       | DC Resistance ( $\Omega$ ) |      | Maximum Rated Current (mA) | Thickness mm (inches)                              | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|--------|---------------------------|-----------------|-----|-----|-----|------|-------------------------------|-------|----------------------------|------|----------------------------|--|--------------------------------|
|                |                 |                      |        |                           | Frequency (MHz) |     |     |     |      | min.                          | typ.  | max.                       | typ. |                            |  |                                |
|                |                 |                      |        |                           | 100             | 300 | 500 | 800 | 1000 |                               |       |                            |      |                            |  |                                |
| L0805C1N5SRMST | 1.5             | $\pm 0.3$ nH         | 10     | 100                       | 21              | 39  | 57  | 61  | 68   | 4000                          | >6000 | 0.10                       | 0.02 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C1N8SRMST | 1.8             | $\pm 0.3$ nH         | 10     | 100                       | 18              | 35  | 49  | 55  | 59   | 4000                          | >6000 | 0.10                       | 0.02 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C2N2SRMST | 2.2             | $\pm 0.3$ nH         | 10     | 100                       | 18              | 33  | 46  | 53  | 58   | 4000                          | >6000 | 0.10                       | 0.03 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C2N7SRMST | 2.7             | $\pm 0.3$ nH         | 12     | 100                       | 19              | 36  | 50  | 56  | 60   | 4000                          | >6000 | 0.10                       | 0.03 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C3N3SRMST | 3.3             | $\pm 0.3$ nH         | 12     | 100                       | 16              | 29  | 40  | 47  | 51   | 4000                          | >6000 | 0.13                       | 0.04 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C3N9SRMST | 3.9             | $\pm 0.3$ nH         | 12     | 100                       | 18              | 33  | 46  | 54  | 60   | 4000                          | >6000 | 0.15                       | 0.05 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C4N7SRMST | 4.7             | $\pm 0.3$ nH         | 12     | 100                       | 18              | 34  | 46  | 55  | 60   | 3500                          | >6000 | 0.20                       | 0.05 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C5N6SRMST | 5.6             | $\pm 0.3$ nH         | 15     | 100                       | 20              | 38  | 51  | 60  | 66   | 3200                          | 5400  | 0.23                       | 0.05 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C6N8JRMST | 6.8             | $\pm 5\%$            | 15     | 100                       | 20              | 39  | 52  | 63  | 69   | 2800                          | 4200  | 0.25                       | 0.06 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C8N2JRMST | 8.2             | $\pm 5\%$            | 15     | 100                       | 21              | 40  | 54  | 63  | 70   | 2400                          | 3700  | 0.28                       | 0.07 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C10NJRMST | 10              | $\pm 5\%$            | 15     | 100                       | 20              | 38  | 51  | 60  | 67   | 2100                          | 3100  | 0.30                       | 0.09 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C12NJRMST | 12              | $\pm 5\%$            | 15     | 100                       | 21              | 39  | 52  | 60  | 67   | 1900                          | 3000  | 0.35                       | 0.10 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C15NJRMST | 15              | $\pm 5\%$            | 15     | 100                       | 22              | 42  | 55  | 63  | 72   | 1600                          | 2600  | 0.40                       | 0.11 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C18NJRMST | 18              | $\pm 5\%$            | 15     | 100                       | 24              | 44  | 57  | 63  | 72   | 1500                          | 2300  | 0.45                       | 0.13 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C22NJRMST | 22              | $\pm 5\%$            | 18     | 100                       | 23              | 43  | 55  | 60  | 69   | 1400                          | 2100  | 0.50                       | 0.16 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C27NJRMST | 27              | $\pm 5\%$            | 18     | 100                       | 23              | 42  | 53  | 58  | 68   | 1300                          | 1800  | 0.55                       | 0.17 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C33NJRMST | 33              | $\pm 5\%$            | 18     | 100                       | 24              | 43  | 54  | 55  | 60   | 1200                          | 1700  | 0.60                       | 0.19 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C39NJRMST | 39              | $\pm 5\%$            | 18     | 100                       | 23              | 41  | 50  | 47  | 47   | 1000                          | 1400  | 0.65                       | 0.25 | 300                        | 0.85 $\pm 0.2$ (0.033 $\pm 0.008$ )                | 4,000                          |
| L0805C47NJRMST | 47              | $\pm 5\%$            | 18     | 100                       | 23              | 41  | 49  | 43  | 41   | 900                           | 1200  | 0.70                       | 0.26 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805C56NJRMST | 56              | $\pm 5\%$            | 18     | 100                       | 23              | 42  | 48  | 39  | 38   | 800                           | 1100  | 0.75                       | 0.28 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805C68NJRMST | 68              | $\pm 5\%$            | 18     | 100                       | 25              | 42  | 45  | 30  | -    | 700                           | 900   | 0.80                       | 0.33 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805C82NJRMST | 82              | $\pm 5\%$            | 18     | 100                       | 24              | 41  | 41  | -   | -    | 600                           | 800   | 0.90                       | 0.37 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR10JRMST | 100             | $\pm 5\%$            | 18     | 100                       | 23              | 37  | 37  | -   | -    | 600                           | 800   | 0.90                       | 0.40 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR12JRMST | 120             | $\pm 5\%$            | 13     | 50                        | 22              | 33  | 29  | -   | -    | 500                           | 700   | 0.95                       | 0.43 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR15JRMST | 150             | $\pm 5\%$            | 13     | 50                        | 22              | 34  | 26  | -   | -    | 500                           | 700   | 1.00                       | 0.46 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR18JRMST | 180             | $\pm 5\%$            | 13     | 50                        | 23              | 34  | 20  | -   | -    | 400                           | 600   | 1.10                       | 0.50 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR22JRMST | 220             | $\pm 5\%$            | 12     | 50                        | 20              | 23  | -   | -   | -    | 350                           | 550   | 1.20                       | 0.75 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR27JRMST | 270             | $\pm 5\%$            | 12     | 50                        | 20              | 19  | -   | -   | -    | 300                           | 480   | 1.30                       | 0.85 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR33JRMST | 330             | $\pm 5\%$            | 12     | 50                        | 22              | 15  | -   | -   | -    | 250                           | 400   | 1.40                       | 0.90 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR39JRMST | 390             | $\pm 5\%$            | 10     | 50                        | 17              | 12  | -   | -   | -    | 250                           | 400   | 1.30                       | 0.85 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |
| L0805CR47JRMST | 470             | $\pm 5\%$            | 10     | 50                        | 17              | -   | -   | -   | -    | 200                           | 350   | 1.50                       | 0.95 | 300                        | 1.0 $\pm 0.2$ -0.3<br>(0.039 $\pm 0.008$ / -0.012) | 3,000                          |

## Multilayer Chip Inductors - L-SMS/L-PMS/L-DMI Series

**Features:**

- Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities.
- Multilayer block structure yields higher reliability
- The smallest mH inductors in the world (SMS 0402 Series)
- Low DC power dissipation due to Low Rdc with High Aspect Ratio internal conductor that stands on the Green Sheet and Printing technologies (DMI Series)

**Operating Temperature:**

- -40°C to +85°C

**Applications:**

- Any general circuit in portable equipment in which a compact size and high mounting densities are required (SMS Series)
- Separation of analog and digital circuits (PMS Series)
- Prevents interference between PLL and other digital circuits (PMS Series)
- DC/DC convertor for mobile equipment, cellular phones, DSC and DVC (PMS Series)

### Part Numbering Table



### Dimension Table in millimeters (inches)



| EIA Case Size | Metric Dim. Code | L Length (inches)                      | W Width (inches)             | T Thickness Maximum (inches)                               | E (inches)                   |
|---------------|------------------|--|------------------------------|--|------------------------------|
| 0402          | 1005             | 1.0 ±0.05<br>(0.039 ±0.002)            | 0.50 ±0.05<br>(0.020 ±0.002) | 0.50 ±0.05<br>(0.020 ±0.002)                               | 0.25 ±0.10<br>(0.010 ±0.004) |
| 0603          | 1608             | 1.6 ±0.15<br>(0.063 ±0.006)            | 0.8 ±0.15<br>(0.031 ±0.006)  | 0.8 ±0.15<br>(0.031 ±0.006)                                | 0.3 ±0.2<br>(0.012 ±0.008)   |
| 0805          | 2125             | 2.0 +0.3/-0.1<br>(0.079 _0.012/-0.004) | 1.25 ±0.2<br>(0.049 ±0.008)  | 0.85 ±0.2<br>1.25 ±0.2<br>(0.033 ±0.008)<br>(0.049 ±0.008) | 0.5 ±0.2<br>(0.02 ±0.008)    |
| 1008          | 2520             | 2.5 ± 0.2<br>(0.098 ± 0.008)           | 2.0 ± 0.2<br>(0.079 ± 0.008) | 1.0 Max.<br>(0.039)  | 0.5 ± 0.3<br>(0.02 ± 0.012)  |



## 0402 Case Size Multilayer Chip Inductors (L-SMS Series)

| Ordering Code     | Inductance (μH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches)   | Tape & Reel Packaging Quantity |
|-------------------|-----------------|----------------------|--------|---------------------------------------|---------------------------|----------------------------|---------------------------|-------------------------|--------------------------------|
| L0402CR12(_ )SMST | 0.12            | K±10%. M±20%         | 10     | 180                                   | 0.70                      | 25                         | 25                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR15(_ )SMST | 0.15            | K±10%. M±20%         | 10     | 165                                   | 0.90                      | 25                         | 25                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR18(_ )SMST | 0.18            | K±10%. M±20%         | 10     | 150                                   | 1.10                      | 25                         | 25                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR22(_ )SMST | 0.22            | K±10%. M±20%         | 10     | 135                                   | 1.30                      | 25                         | 25                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR27(_ )SMST | 0.27            | K±10%. M±20%         | 10     | 120                                   | 1.50                      | 25                         | 25                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR33(_ )SMST | 0.33            | K±10%. M±20%         | 10     | 105                                   | 1.70                      | 25                         | 25                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR39(_ )SMST | 0.39            | K±10%. M±20%         | 20     | 85                                    | 0.60                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR47(_ )SMST | 0.47            | K±10%. M±20%         | 20     | 80                                    | 0.70                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR56(_ )SMST | 0.56            | K±10%. M±20%         | 20     | 75                                    | 0.80                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR68(_ )SMST | 0.68            | K±10%. M±20%         | 20     | 70                                    | 0.90                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402CR82(_ )SMST | 0.82            | K±10%. M±20%         | 20     | 65                                    | 1.00                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1R0(_ )SMST | 1.0             | K±10%. M±20%         | 20     | 60                                    | 1.10                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1R2(_ )SMST | 1.2             | K±10%. M±20%         | 20     | 55                                    | 1.25                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1R5(_ )SMST | 1.5             | K±10%. M±20%         | 20     | 50                                    | 1.40                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C1R8(_ )SMST | 1.8             | K±10%. M±20%         | 20     | 45                                    | 1.55                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |
| L0402C2R2(_ )SMST | 2.2             | K±10%. M±20%         | 20     | 40                                    | 1.70                      | 10                         | 10                        | 0.5 ±0.05 (0.02 ±0.002) | 10,000                         |

(\_) - Insert Inductance Tolerance Code (K or M)

### 0603 Case Size Multilayer Chip Inductors (L-SMS Series)

| Ordering Code    | Inductance (µH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|------------------|-----------------|----------------------|--------|---------------------------------------|---------------------------|----------------------------|---------------------------|--------------------------|--------------------------------|
| L0603C47NMSMST   | 0.047           | ±20%                 | 10     | 260                                   | 0.30                      | 50                         | 50                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C68NMSMST   | 0.068           | ±20%                 | 10     | 250                                   | 0.30                      | 50                         | 50                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C82NMSMST   | 0.082           | ±20%                 | 10     | 245                                   | 0.30                      | 50                         | 50                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR10( )SMST | 0.10            | K±10%, M±20%         | 15     | 240                                   | 0.50                      | 50                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR12( )SMST | 0.12            | K±10%, M±20%         | 15     | 205                                   | 0.50                      | 50                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR15( )SMST | 0.15            | K±10%, M±20%         | 15     | 180                                   | 0.60                      | 50                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR18( )SMST | 0.18            | K±10%, M±20%         | 15     | 165                                   | 0.60                      | 50                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR22( )SMST | 0.22            | K±10%, M±20%         | 15     | 150                                   | 0.80                      | 50                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR27( )SMST | 0.27            | K±10%, M±20%         | 15     | 136                                   | 0.80                      | 50                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR33( )SMST | 0.33            | K±10%, M±20%         | 15     | 125                                   | 0.85                      | 35                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR39( )SMST | 0.39            | K±10%, M±20%         | 15     | 110                                   | 1.00                      | 35                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR47( )SMST | 0.47            | K±10%, M±20%         | 15     | 105                                   | 1.35                      | 35                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR56( )SMST | 0.56            | K±10%, M±20%         | 15     | 95                                    | 1.55                      | 35                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR68( )SMST | 0.68            | K±10%, M±20%         | 15     | 80                                    | 1.70                      | 35                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603CR82( )SMST | 0.82            | K±10%, M±20%         | 15     | 75                                    | 2.10                      | 35                         | 25                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1R0( )SMST | 1.0             | K±10%, M±20%         | 35     | 70                                    | 0.60                      | 25                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1R2( )SMST | 1.2             | K±10%, M±20%         | 35     | 60                                    | 0.80                      | 25                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1R5( )SMST | 1.5             | K±10%, M±20%         | 35     | 55                                    | 0.80                      | 25                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C1R8( )SMST | 1.8             | K±10%, M±20%         | 35     | 50                                    | 0.95                      | 25                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C2R2( )SMST | 2.2             | K±10%, M±20%         | 35     | 45                                    | 1.15                      | 15                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C2R7( )SMST | 2.7             | K±10%, M±20%         | 35     | 40                                    | 1.35                      | 15                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C3R3( )SMST | 3.3             | K±10%, M±20%         | 35     | 38                                    | 1.55                      | 15                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C3R9( )SMST | 3.9             | K±10%, M±20%         | 35     | 36                                    | 1.70                      | 15                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C4R7( )SMST | 4.7             | K±10%, M±20%         | 35     | 33                                    | 2.10                      | 15                         | 10                        | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C5R6( )SMST | 5.6             | K±10%, M±20%         | 35     | 22                                    | 1.55                      | 5                          | 4                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C6R8( )SMST | 6.8             | K±10%, M±20%         | 35     | 20                                    | 1.70                      | 5                          | 4                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C8R2( )SMST | 8.2             | K±10%, M±20%         | 35     | 18                                    | 2.10                      | 5                          | 4                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C100( )SMST | 10              | K±10%, M±20%         | 35     | 17                                    | 2.55                      | 5                          | 2                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C120( )SMST | 12              | K±10%, M±20%         | 35     | 15                                    | 2.75                      | 5                          | 2                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C150MSMST   | 15              | ±20%                 | 20     | 14                                    | 1.70                      | 1                          | 1                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C180MSMST   | 18              | ±20%                 | 20     | 13                                    | 1.85                      | 1                          | 1                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C220MSMST   | 22              | ±20%                 | 20     | 11                                    | 2.10                      | 1                          | 1                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C270MSMST   | 27              | ±20%                 | 20     | 10                                    | 2.75                      | 1                          | 1                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C330MSMST   | 33              | ±20%                 | 20     | 9                                     | 2.95                      | 1                          | 1                         | 0.8 ±0.15 (0.031 ±0.006) | 4,000                          |

( ) - Insert Inductance Tolerance Code (K or M)

## 0805 Case Size Multilayer Chip Inductors (L-SMS Series)

| Ordering Code     | Inductance (µH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|-------------------|-----------------|----------------------|--------|---------------------------------------|---------------------------|----------------------------|---------------------------|--------------------------|--------------------------------|
| L0805C47NMSMST    | 0.047           | ±20%                 | 15     | 320                                   | 0.20                      | 300                        | 50                        | 0.85 ±0.2 (0.033 ±0.008) | 2,000                          |
| L0805C68NMSMST    | 0.068           | ±20%                 | 15     | 280                                   | 0.20                      | 300                        | 50                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C82NMSMST    | 0.082           | ±20%                 | 15     | 255                                   | 0.20                      | 300                        | 50                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR10(_ )SMST | 0.10            | K±10%, M±20%         | 20     | 235                                   | 0.30                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR12(_ )SMST | 0.12            | K±10%, M±20%         | 20     | 220                                   | 0.30                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR15(_ )SMST | 0.15            | K±10%, M±20%         | 20     | 200                                   | 0.40                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR18(_ )SMST | 0.18            | K±10%, M±20%         | 20     | 185                                   | 0.40                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR22(_ )SMST | 0.22            | K±10%, M±20%         | 20     | 170                                   | 0.50                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR27(_ )SMST | 0.27            | K±10%, M±20%         | 20     | 150                                   | 0.50                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR33(_ )SMST | 0.33            | K±10%, M±20%         | 20     | 145                                   | 0.55                      | 250                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR39(_ )SMST | 0.39            | K±10%, M±20%         | 25     | 135                                   | 0.65                      | 200                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR47(_ )SMST | 0.47            | K±10%, M±20%         | 25     | 125                                   | 0.65                      | 200                        | 25                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805CR56(_ )SMST | 0.56            | K±10%, M±20%         | 25     | 115                                   | 0.75                      | 150                        | 25                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805CR68(_ )SMST | 0.68            | K±10%, M±20%         | 25     | 105                                   | 0.80                      | 150                        | 25                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805CR82(_ )SMST | 0.82            | K±10%, M±20%         | 25     | 100                                   | 1.00                      | 150                        | 25                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C1R0(_ )SMST | 1.0             | K±10%, M±20%         | 45     | 75                                    | 0.40                      | 50                         | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C1R2(_ )SMST | 1.2             | K±10%, M±20%         | 45     | 65                                    | 0.50                      | 50                         | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C1R5(_ )SMST | 1.5             | K±10%, M±20%         | 45     | 60                                    | 0.50                      | 50                         | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C1R8(_ )SMST | 1.8             | K±10%, M±20%         | 45     | 55                                    | 0.60                      | 50                         | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C2R2(_ )SMST | 2.2             | K±10%, M±20%         | 45     | 50                                    | 0.65                      | 30                         | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C2R7(_ )SMST | 2.7             | K±10%, M±20%         | 45     | 45                                    | 0.75                      | 30                         | 10                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C3R3(_ )SMST | 3.3             | K±10%, M±20%         | 45     | 41                                    | 0.80                      | 30                         | 10                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C3R9(_ )SMST | 3.9             | K±10%, M±20%         | 45     | 38                                    | 0.90                      | 30                         | 10                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C4R7(_ )SMST | 4.7             | K±10%, M±20%         | 45     | 35                                    | 1.00                      | 30                         | 10                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C5R6(_ )SMST | 5.6             | K±10%, M±20%         | 50     | 32                                    | 0.90                      | 15                         | 4                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C6R8(_ )SMST | 6.8             | K±10%, M±20%         | 50     | 29                                    | 1.00                      | 15                         | 4                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C8R2(_ )SMST | 8.2             | K±10%, M±20%         | 50     | 26                                    | 1.10                      | 15                         | 4                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C100(_ )SMST | 10              | K±10%, M±20%         | 50     | 24                                    | 1.15                      | 15                         | 2                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C120(_ )SMST | 12              | K±10%, M±20%         | 50     | 22                                    | 1.25                      | 15                         | 2                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C150MSMST    | 15              | ±20%                 | 30     | 19                                    | 0.80                      | 5                          | 1                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C180MSMST    | 18              | ±20%                 | 30     | 18                                    | 0.90                      | 5                          | 1                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C220MSMST    | 22              | ±20%                 | 30     | 16                                    | 1.10                      | 5                          | 1                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C270MSMST    | 27              | ±20%                 | 30     | 14                                    | 1.15                      | 5                          | 1                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C330MSMST    | 33              | ±20%                 | 30     | 13                                    | 1.25                      | 5                          | 0.4                       | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |

(\_) Insert Tolerance Code (K±10% or M±20%) listed to the right

### 0603 Case Size Multilayer Chip Inductors (L-PMS Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Inductance at 200mA (μH) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches)     | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|----------------------------------|---------------------------|----------------------------|---------------------------|---------------------------|--------------------------------|
| L0603C4R7MPMST | 4.7             | ±20%                 | 20                               | 0.45                      | 60                         | 4                         | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| L0603C100MPMST | 10.0            | ±20%                 | 20                               | 0.85                      | 50                         | 2                         | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |

### 0805 Case Size Multilayer Chip Inductors (L-PMS Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|--------|---------------------------------------|---------------------------|----------------------------|---------------------------|--------------------------|--------------------------------|
| L0805CR10MPMST | 0.10            | ±20%                 | 15     | 235                                   | 0.16                      | 500                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR15MPMST | 0.15            | ±20%                 | 15     | 200                                   | 0.20                      | 500                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR22MPMST | 0.22            | ±20%                 | 15     | 170                                   | 0.23                      | 400                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR33MPMST | 0.33            | ±20%                 | 15     | 145                                   | 0.28                      | 400                        | 25                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805CR47MPMST | 0.47            | ±20%                 | 15     | 125                                   | 0.32                      | 400                        | 25                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805CR68MPMST | 0.68            | ±20%                 | 15     | 105                                   | 0.45                      | 300                        | 25                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C1R0MPMST | 1.0             | ±20%                 | 20     | 75                                    | 0.26                      | 220                        | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C1R5MPMST | 1.5             | ±20%                 | 20     | 60                                    | 0.28                      | 170                        | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C2R2MPMST | 2.2             | ±20%                 | 20     | 50                                    | 0.35                      | 150                        | 10                        | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| L0805C3R3MPMST | 3.3             | ±20%                 | 20     | 41                                    | 0.43                      | 130                        | 10                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C4R7MPMST | 4.7             | ±20%                 | 20     | 35                                    | 0.48                      | 80                         | 10                        | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C6R8MPMST | 6.8             | ±20%                 | 20     | 29                                    | 0.52                      | 70                         | 4                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |
| L0805C100MPMST | 10.0            | ±20%                 | 20     | 24                                    | 0.65                      | 60                         | 2                         | 1.25 ±0.2 (0.049 ±0.008) | 2,000                          |

### 1008 Case Size Multilayer Chip Inductors (L-DMI Series)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Minimum Inductance at 200mA (μH) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|----------------------------------|---------------------------|----------------------------|---------------------------|-----------------------|--------------------------------|
| L1008C2R2MDMIT | 2.2             | ±20%                 | 1.5                              | 0.09                      | 1300                       | 1                         | 1.0 max (0.039 max)   | 4,000                          |
| L1008C3R3MDMIT | 3.3             | ±20%                 | 2.0                              | 0.10                      | 1200                       | 1                         | 1.0 max (0.039 max)   | 4,000                          |
| L1008C4R7MDMIT | 4.7             | ±20%                 | 2.5                              | 0.15                      | 1100                       | 1                         | 1.0 max (0.039 max)   | 4,000                          |

## Low Profile SMD Inductors (L-DWD Series)

### Features:

- Small and low profile inductor
- Corresponds to high current
- Simple and original magnetic shield structure
- Structure strong against shock-proof

### Applications:

- For small DC/DC converter; cellular phones, HDD, HVC, DSC, and PDA LCD display

### Operating Temperature:

- -25°C to +120°C (including self-generated heat)

### Part Numbering Table



### Dimension Table in millimeters (inches)



| Metric Dim. Code | L Length (inches)          | W Width (inches)           | T Thickness Maximum (inches) | E (inches)                 | F                          |
|------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|
| 3010             | 3.0 ±0.1<br>(0.118 ±0.004) | 3.0 ±0.1<br>(0.118 ±0.004) | 1.0 max.<br>(0.039 max.)     | 0.9 ±0.2<br>(0.035 ±0.008) | 1.9 ±0.2<br>(0.075 ±0.008) |
| 4010             | 4.0 ±0.2<br>(0.157 ±0.008) | 4.0 ±0.2<br>(0.157 ±0.008) | 1.0 max.<br>(0.039 max.)     | 1.1 ±0.2<br>(0.043 ±0.008) | 2.5 ±0.2<br>(0.098 ±0.008) |
| 4012             | 4.0 ±0.2<br>(0.157 ±0.008) | 4.0 ±0.2<br>(0.157 ±0.008) | 1.2 max.<br>(0.047 max.)     | 1.1 ±0.2<br>(0.043 ±0.008) | 2.5 ±0.2<br>(0.098 ±0.008) |
| 4018             | 4.0 ±0.2<br>(0.157 ±0.008) | 4.0 ±0.2<br>(0.157 ±0.008) | 1.8 max.<br>(0.071 max.)     | 1.1 ±0.2<br>(0.043 ±0.008) | 2.5 ±0.2<br>(0.098 ±0.008) |
| 8040             | 8.0 ±0.2<br>(0.315 ±0.008) | 8.0 ±0.2<br>(0.315 ±0.008) | 4.2 max<br>(0.165 max)       | 1.6 ±0.3<br>(0.063 ±0.012) | 5.6 ±0.3<br>(0.220 ±0.012) |

### Dimensions 3.0mm x 3.0mm (L-DWD3010 Type, 1.0mm Max. Height)

| Ordering Code  | Inductance (μH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------|---------------------------------------|--------------------------------|----------------------------|---------------------|--------------------------------|
| L3010C1R0NDWDT | 1.0             | ±30%                 | 100                       | 126                                   | 0.065                          | 1300                       | 1.0                 | 2,000                          |
| L3010C1R5NDWDT | 1.5             | ±30%                 | 100                       | 98                                    | 0.08                           | 1200                       | 1.0                 | 2,000                          |
| L3010C2R2MDWDT | 2.2             | ±20%                 | 100                       | 82                                    | 0.095                          | 1100                       | 1.0                 | 2,000                          |
| L3010C3R3MDWDT | 3.3             | ±20%                 | 100                       | 63                                    | 0.14                           | 870                        | 1.0                 | 2,000                          |
| L3010C4R7MDWDT | 4.7             | ±20%                 | 100                       | 56                                    | 0.19                           | 750                        | 1.0                 | 2,000                          |
| L3010C6R8MDWDT | 6.8             | ±20%                 | 100                       | 46                                    | 0.30                           | 610                        | 1.0                 | 2,000                          |
| L3010C100MDWDT | 10              | ±20%                 | 100                       | 35                                    | 0.45                           | 500                        | 1.0                 | 2,000                          |
| L3010C150MDWDT | 15              | ±20%                 | 100                       | 30                                    | 0.74                           | 400                        | 1.0                 | 2,000                          |
| L3010C220MDWDT | 22              | ±20%                 | 100                       | 25                                    | 1.03                           | 350                        | 1.0                 | 2,000                          |
| L3010C330MDWDT | 33              | ±20%                 | 100                       | 20                                    | 1.55                           | 260                        | 1.0                 | 2,000                          |
| L3010C470MDWDT | 47              | ±20%                 | 100                       | 17                                    | 2.05                           | 220                        | 1.0                 | 2,000                          |

### Dimensions 4.0mm x 4.0mm (L-DWD4010 Type, 1.0mm Max. Height)

| Ordering code  | Inductance (μH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------|---------------------------------------|--------------------------------|----------------------------|---------------------|--------------------------------|
| L4010C1R0NDWDT | 1.0             | ±30%                 | 100                       | 116                                   | 0.10                           | 1050                       | 1.0                 | 5,000                          |
| L4010C2R2NDWDT | 2.2             | ±30%                 | 100                       | 73                                    | 0.15                           | 890                        | 1.0                 | 5,000                          |
| L4010C3R3MDWDT | 3.3             | ±20%                 | 100                       | 58                                    | 0.18                           | 820                        | 1.0                 | 5,000                          |
| L4010C4R7MDWDT | 4.7             | ±20%                 | 100                       | 47                                    | 0.21                           | 750                        | 1.0                 | 5,000                          |
| L4010C6R8MDWDT | 6.8             | ±20%                 | 100                       | 38                                    | 0.30                           | 620                        | 1.0                 | 5,000                          |
| L4010C100MDWDT | 10              | ±20%                 | 100                       | 31                                    | 0.38                           | 560                        | 1.0                 | 5,000                          |
| L4010C150MDWDT | 15              | ±20%                 | 100                       | 24                                    | 0.51                           | 470                        | 1.0                 | 5,000                          |
| L4010C220MDWDT | 22              | ±20%                 | 100                       | 19                                    | 0.87                           | 360                        | 1.0                 | 5,000                          |
| L4010C330MDWDT | 33              | ±20%                 | 100                       | 15                                    | 1.54                           | 280                        | 1.0                 | 5,000                          |
| L4010C470MDWDT | 47              | ±20%                 | 100                       | 13                                    | 1.81                           | 240                        | 1.0                 | 5,000                          |

### Dimensions 4.0mm x 4.0mm (L-DWD4012 Type, 1.2mm Max. Height)

| Ordering Code  | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------|---------------------------------------|--------------------------------|----------------------------|---------------------|--------------------------------|
| L4012C1R0NDWDT | 1.0             | ±30%                 | 100                       | 131                                   | 0.06                           | 1500                       | 1.2                 | 4,500                          |
| L4012C2R2MDWDT | 2.2             | ±20%                 | 100                       | 66                                    | 0.09                           | 1200                       | 1.2                 | 4,500                          |
| L4012C3R3MDWDT | 3.3             | ±20%                 | 100                       | 50                                    | 0.13                           | 980                        | 1.2                 | 4,500                          |
| L4012C4R7MDWDT | 4.7             | ±20%                 | 100                       | 45                                    | 0.14                           | 960                        | 1.2                 | 4,500                          |
| L4012C6R8MDWDT | 6.8             | ±20%                 | 100                       | 35                                    | 0.18                           | 840                        | 1.2                 | 4,500                          |
| L4012C100MDWDT | 10              | ±20%                 | 100                       | 28                                    | 0.24                           | 740                        | 1.2                 | 4,500                          |
| L4012C150MDWDT | 15              | ±20%                 | 100                       | 23                                    | 0.40                           | 560                        | 1.2                 | 4,500                          |
| L4012C220MDWDT | 22              | ±20%                 | 100                       | 18                                    | 0.48                           | 510                        | 1.2                 | 4,500                          |
| L4012C330MDWDT | 33              | ±20%                 | 100                       | 15                                    | 0.81                           | 400                        | 1.2                 | 4,500                          |
| L4012C470MDWDT | 47              | ±20%                 | 100                       | 12                                    | 1.00                           | 350                        | 1.2                 | 4,500                          |

### Dimensions 4.0mm x 4.0mm (L-DWD4018 Type, 1.8mm Max. Height)

| Ordering Code  | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------|---------------------------------------|--------------------------------|----------------------------|---------------------|--------------------------------|
| L4018C1R0NDWDT | 1.0             | ±30%                 | 100                       | 80                                    | 0.03                           | 1830                       | 1.8                 | 3,500                          |
| L4018C2R2MDWDT | 2.2             | ±20%                 | 100                       | 52                                    | 0.06                           | 1440                       | 1.8                 | 3,500                          |
| L4018C3R3MDWDT | 3.3             | ±20%                 | 100                       | 44                                    | 0.07                           | 1230                       | 1.8                 | 3,500                          |
| L4018C4R7MDWDT | 4.7             | ±20%                 | 100                       | 34                                    | 0.09                           | 1200                       | 1.8                 | 3,500                          |
| L4018C6R8MDWDT | 6.8             | ±20%                 | 100                       | 29                                    | 0.11                           | 1060                       | 1.8                 | 3,500                          |
| L4018C100MDWDT | 10              | ±20%                 | 100                       | 24                                    | 0.18                           | 840                        | 1.8                 | 3,500                          |
| L4018C150MDWDT | 15              | ±20%                 | 100                       | 19                                    | 0.25                           | 650                        | 1.8                 | 3,500                          |
| L4018C220MDWDT | 22              | ±20%                 | 100                       | 16                                    | 0.36                           | 590                        | 1.8                 | 3,500                          |
| L4018C330MDWDT | 33              | ±20%                 | 100                       | 12                                    | 0.53                           | 490                        | 1.8                 | 3,500                          |
| L4018C470MDWDT | 47              | ±20%                 | 100                       | 10                                    | 0.65                           | 420                        | 1.8                 | 3,500                          |
| L4018C680MDWDT | 68              | ±20%                 | 100                       | 8.3                                   | 1.00                           | 320                        | 1.8                 | 3,500                          |
| L4018C101MDWDT | 100             | ±20%                 | 100                       | 6.5                                   | 1.50                           | 280                        | 1.8                 | 3,500                          |
| L4018C221MDWDT | 220             | ±20%                 | 100                       | 4                                     | 4.00                           | 170                        | 1.8                 | 3,500                          |

### Dimensions 8.0mm x 8.0mm (L-DWD8040 Type, 4.2mm Max. Height)

| Ordering Code  | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|----------------|-----------------|----------------------|---------------------------|---------------------------------------|--------------------------------|----------------------------|---------------------|--------------------------------|
| L8040C0R9NDWDT | 0.9             | ±30%                 | 100                       | 85                                    | 0.006                          | 7800                       | 4.0                 | 1,000                          |
| L8040C1R4NDWDT | 1.4             | ±30%                 | 100                       | 63                                    | 0.007                          | 7000                       | 4.0                 | 1,000                          |
| L8040C2R0NDWDT | 2.0             | ±30%                 | 100                       | 50                                    | 0.009                          | 6300                       | 4.0                 | 1,000                          |
| L8040C3R6NDWDT | 3.6             | ±30%                 | 100                       | 34                                    | 0.015                          | 4900                       | 4.0                 | 1,000                          |
| L8040C4R7NDWDT | 4.7             | ±30%                 | 100                       | 30                                    | 0.018                          | 4100                       | 4.0                 | 1,000                          |
| L8040C6R8NDWDT | 6.8             | ±30%                 | 100                       | 24                                    | 0.025                          | 3700                       | 4.0                 | 1,000                          |
| L8040C100MDWDT | 10              | ±20%                 | 100                       | 22                                    | 0.034                          | 3100                       | 4.2                 | 1,000                          |
| L8040C150MDWDT | 15              | ±20%                 | 100                       | 16                                    | 0.050                          | 2400                       | 4.2                 | 1,000                          |
| L8040C220MDWDT | 22              | ±20%                 | 100                       | 13                                    | 0.066                          | 2200                       | 4.2                 | 1,000                          |
| L8040C330MDWDT | 33              | ±20%                 | 100                       | 12                                    | 0.100                          | 1700                       | 4.2                 | 1,000                          |
| L8040C470MDWDT | 47              | ±20%                 | 100                       | 8                                     | 0.150                          | 1400                       | 4.2                 | 1,000                          |
| L8040C680MDWDT | 68              | ±20%                 | 100                       | 7                                     | 0.230                          | 1100                       | 4.2                 | 1,000                          |
| L8040C101MDWDT | 100             | ±20%                 | 100                       | 6                                     | 0.290                          | 1000                       | 4.2                 | 1,000                          |

## High Current Ferrite Chip Beads - Z-PWS/Z-PWZ Series

### Features:

- Power supply units:
  - Large withstand voltage (allowable current up to 6A)
  - Resistant to high energy
  - High reliability
- There are several variations of the standard (Z-PWS) type (10th digit in part number)
  - "A" for broadband
  - "B" for upper MHz range applications
  - "G" for GHz range applications
- The Z-PWZ type is optimal for circuit designs which require impedance and large currents to combat radiated noise on power lines, etc.

### Applications:

- Combats power line radiated and conducted noise
- Provides waveform correction of digital signals and high frequency noise countermeasures in various types of digital equipment
- Automotive
- Computer peripherals
- Differential transmission line on USB and similar products
- Mobile devices which require lower power consumption

### Operating Temperature:

- -40°C to +125°C (includes self-generated heat)

## Part Numbering Table



## Dimension Table in millimeters (inches)



| Characteristic Code | EIA Case Size | Metric Dim. Code | L Length (inches)          | W Width (inches)            | T Thickness Maximum (inches) | E (inches)                  |
|---------------------|---------------|------------------|----------------------------|-----------------------------|------------------------------|-----------------------------|
| Z-PWS               | 0603          | 1608             | 1.6 ±0.2<br>(0.063 ±0.008) | 0.8 ±0.2<br>(0.031 ±0.008)  | 0.8 ±0.2<br>(0.031 ±0.008)   | 0.3 ±0.2<br>(0.012 ±0.008)  |
|                     | 0805          | 2125             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.25 ±0.2<br>(0.049 ±0.008) | 0.85 ±0.2<br>(0.02 ±0.002)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 1206          | 3216             | 3.2 ±0.3<br>(0.126 ±0.012) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 1806          | 4516             | 4.5 ±0.3<br>(0.177 ±0.012) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
| Z-PWZ               | 0603          | 1608             | 1.6 ±0.1<br>(0.063 ±0.004) | 0.8 ±0.1<br>(0.031 ±0.004)  | 0.8 ±0.1<br>(0.031 ±0.004)   | 0.3 ±0.15<br>(0.012 ±0.006) |
|                     | 0805          | 2012             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.25 ±0.2<br>(0.049 ±0.008) | 0.85 ±0.2<br>(0.02 ±0.002)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 0806          | 2016             | 2.0 ±0.2<br>(0.079 ±0.008) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 1206          | 3216             | 3.2 ±0.3<br>(0.126 ±0.012) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 1210          | 3225             | 3.2 ±0.3<br>(0.126 ±0.012) | 2.5 ±0.3<br>(0.098 ±0.012)  | 2.5 ±0.3<br>(0.098 ±0.012)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 1806          | 4516             | 4.5 ±0.3<br>(0.177 ±0.012) | 1.6 ±0.2<br>(0.063 ±0.008)  | 1.6 ±0.2<br>(0.063 ±0.008)   | 0.5 ±0.3<br>(0.020 ±0.012)  |
|                     | 1810          | 4525             | 4.5 ±0.4<br>(0.177 ±0.016) | 2.5 ±0.3<br>(0.098 ±0.012)  | 2.5 ±0.3<br>(0.098 ±0.012)   | 0.9 ±0.6<br>(0.035 ±0.024)  |
|                     | 1812          | 4532             | 4.5 ±0.4<br>(0.177 ±0.016) | 3.2 ±0.3<br>(0.126 ±0.012)  | 3.2 ±0.3<br>(0.126 ±0.012)   | 0.9 ±0.6<br>(0.035 ±0.024)  |

### 0603 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

| Ordering Code  | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches)   | Tape & Reel Packaging Quantity |
|----------------|---------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------------|
| Z0603C230BPWST | 23 ±30%       | 100                       | 0.007                     | 4                         | 0.8 ±0.2 (0.031 ±0.008) | 4,000                          |
| Z0603C280APWST | 28 ±30%       | 100                       | 0.007                     | 4                         | 0.8 ±0.2 (0.031 ±0.008) | 4,000                          |

### 0805 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

| Ordering Code  | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|----------------|---------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------------|
| Z0805C8R0GPWST | 8 ±30%        | 100                       | 0.01                      | 2                         | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0805C210BPWST | 21 ±30%       | 100                       | 0.004                     | 6                         | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0805C250APWST | 25 ±30%       | 100                       | 0.004                     | 6                         | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0805C330BPWST | 33 ±25%       | 100                       | 0.008                     | 4                         | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0805C420APWST | 42 ±25%       | 100                       | 0.008                     | 4                         | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |

### 1206 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

| Ordering Code  | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches)   | Tape & Reel Packaging Quantity |
|----------------|---------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------------|
| Z1206C380BPWST | 38 ±30%       | 100                       | 0.005                     | 6                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |
| Z1206C480APWST | 48 ±30%       | 100                       | 0.005                     | 6                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |
| Z1206C600BPWST | 60 ±25%       | 100                       | 0.01                      | 4                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |
| Z1206C800APWST | 80 ±25%       | 100                       | 0.01                      | 4                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |

### 1806 Case Size High Current Ferrite Chip Beads (Z-PWS Series)

| Ordering Code  | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches)   | Tape & Reel Packaging Quantity |
|----------------|---------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------------|
| Z1806C560BPWST | 56 ±30%       | 100                       | 0.007                     | 6                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |
| Z1806C900BPWST | 90 ±25%       | 100                       | 0.014                     | 4                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |
| Z1806C720APWST | 72 ±30%       | 100                       | 0.007                     | 6                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |
| Z1806C111APWST | 110 ±25%      | 100                       | 0.014                     | 4                         | 1.1 ±0.2 (0.043 ±0.008) | 2,000                          |



# High Current Ferrite Chip Beads - Z-PWS, Z-PWZ Series

## 0603-1812 Case Size High Impedance Type Ferrite Chip Beads (Z-PWZ Series)

| Ordering Code  | EIA Case Size | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches)    | Tape & Reel Packaging Quantity |
|--|---------------|---------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------------|
| <b>0603 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z0603C470BPWZT   | 0603          | 47 ±25%       | 100                       | 0.02                      | 3.5                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C600BPWZT   | 0603          | 60 ±25%       | 100                       | 0.025                     | 3                         | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C101BPWZT   | 0603          | 100 ±25%      | 100                       | 0.035                     | 2                         | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C151BPWZT   | 0603          | 150 ±25%      | 100                       | 0.05                      | 2                         | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C221BPWZT   | 0603          | 220 ±25%      | 100                       | 0.07                      | 1.5                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C331BPWZT   | 0603          | 330 ±25%      | 100                       | 0.13                      | 0.9                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C471BPWZT   | 0603          | 470 ±25%      | 100                       | 0.15                      | 0.7                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C601BPWZT   | 0603          | 600 ±25%      | 100                       | 0.17                      | 0.7                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C102BPWZT   | 0603          | 1000 ±25%     | 100                       | 0.35                      | 0.5                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C300GPWZT   | 0603          | 30 ±25%       | 100                       | 0.028                     | 2.5                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C600GPWZT   | 0603          | 60 ±25%       | 100                       | 0.045                     | 1.8                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C121GPWZT   | 0603          | 120 ±25%      | 100                       | 0.13                      | 0.9                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C221GPWZT   | 0603          | 220 ±25%      | 100                       | 0.17                      | 0.7                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C331GPWZT   | 0603          | 330 ± 5%      | 100                       | 0.21                      | 0.6                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C471GPWZT   | 0603          | 470 ±25%      | 100                       | 0.35                      | 0.5                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| Z0603C601GPWZT   | 0603          | 600 ±25%      | 100                       | 0.45                      | 0.4                       | 0.8 ±0.1 (0.031 ±0.004)  | 4,000                          |
| <b>0805 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z0805C800BPWZT   | 0805          | 80 ±25%       | 100                       | 0.025                     | 2.7                       | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0805C121BPWZT   | 0805          | 120 ±25%      | 100                       | 0.032                     | 2.5                       | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| <b>0806 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z0806C221BPWZT   | 0805          | 220 ±25%      | 100                       | 0.06                      | 2                         | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0806C331BPWZT   | 0805          | 330 ±25%      | 100                       | 0.08                      | 1.8                       | 0.85 ±0.2 (0.033 ±0.008) | 4,000                          |
| Z0806C251BPWZT   | 0806          | 250 ±30%      | 100                       | 0.05                      | 2                         | 1.6 ±0.2 (0.063 ±0.008)  | 2,000                          |
| <b>1206 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z1206C501BPWZT   | 1206          | 500 ±30%      | 100                       | 0.07                      | 2                         | 1.6 ±0.2 (0.063 ±0.008)  | 2,000                          |
| <b>1210 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z1210C601BPWZT   | 1210          | 600 ±30%      | 100                       | 0.042                     | 3                         | 2.5 ±0.3 (0.098 ±0.012)  | 1,000                          |
| Z1210C102BPWZT   | 1210          | 1000 ±30%     | 100                       | 0.1                       | 2                         | 2.5 ±0.3 (0.098 ±0.012)  | 1,000                          |
| Z1210C202BPWZT   | 1210          | 2000 ±30%     | 100                       | 0.13                      | 1.2                       | 2.5 ±0.3 (0.098 ±0.012)  | 1,000                          |
| <b>1806 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z1806C851BPWZT   | 1806          | 850 ±30%      | 100                       | 0.1                       | 1.5                       | 1.6 ±0.2 (0.063 ±0.008)  | 1,000                          |
| <b>1810 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z1810C102BPWZT   | 1810          | 1000 ±30%     | 100                       | 0.06                      | 3                         | 2.5 ±0.3 (0.098 ±0.012)  | 1,000                          |
| Z1810C162BPWZT   | 1810          | 1600 ±30%     | 100                       | 0.13                      | 2                         | 2.5 ±0.3 (0.098 ±0.012)  | 1,000                          |
| <b>1812 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series)</b> |               |               |                           |                           |                           |                          |                                |
| Z1812C681BPWZT   | 1812          | 680 ±25%      | 100                       | 0.028                     | 4                         | 3.2 ±0.3 (0.126 ±0.012)  | 2,000                          |
| Z1812C132BPWZT   | 1812          | 1300 ±25%     | 100                       | 0.06                      | 3                         | 3.2 ±0.3 (0.126 ±0.012)  | 2,000                          |
| Z1812C202BPWZT   | 1812          | 2000 ±25%     | 100                       | 0.13                      | 1.3                       | 3.2 ±0.3 (0.126 ±0.012)  | 2,000                          |

## Multilayer Ferrite Chip Beads - Z-SMS/Z-PMS Series

### Z-SMS Features:

- Internal silver printed layer creates a closed circuit which acts as a magnetic shield to minimize heat generation and crosstalk
- No need for grounding provides greater circuit design flexibility
- Several material types and a broad range of impedance values provide noise countermeasures for various applications (10th digit in part number)
- “A” Suppresses the XL component. Helps stop the reduction of the wave-form integrity (digital wave-form overshoot, etc)
- “B” Increases the Z characteristics sharply above 20MHz and is applicable for radiated noise in the 100MHz-300MHz range. Especially effective on video signal lines.
- “C” Designed as a noise countermeasure for 200MHz-500MHz range where the rise of the Z component is in the high frequency area.
- “D” Intended for noise suppression around 200MHz. Effectively increase attenuation
- “E” The best material in the Z-SMS Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.
- “F” Reduced DC resistance version for noise countermeasures around LSI power supplies

### Z-SMS Applications:

- High frequency noise countermeasure in personal computers, digital cameras and other information system products. For use on digital product clock lines and general signal lines.
- Radiated noise suppression in computer or printer interfaces harness connectors.
- Noise suppression in video and other AV products
- Prevents interference between circuits in cellular phones (PHS, PDC, etc)
- Due to the closed internal circuit which acts as a magnetic shield, the “F” material is extremely effective as a noise filter on LSI power supplies where downsizing of components is needed.

### Z-PMS Applications:

- High frequency noise countermeasures on the DC power supply line in personal computers and other information system products
- Noise suppression in USB and IEEE1294 interface
- Prevents interference between circuits in mobile systems (PDC, PHS, PDA)

### Operating Temperature:

- Z-SMS: -55°C to +125°C (includes self-generated heat)
- Z-PMS: -55°C to +85°C (includes self-generated heat)

### Z-PMS Features:

- Low Rdc values reduce power dissipation and extend battery life
- No need for grounding provides greater circuit design flexibility

## Part Numbering Table



## Dimension Table in millimeters (inches)



| EIA Case Size | Metric Dim. Code | L Length (inches)                      | W Width (inches)             | T Thickness Maximum (inches) | E (inches)                   |
|---------------|------------------|--|------------------------------|------------------------------|------------------------------|
| 0201          | 0603             | 0.6 ±0.03<br>(0.2 ±0.001)              | 0.30 ±0.03<br>(0.012 ±0.001) | 0.30 ±0.03<br>(0.012 ±0.001) | 0.15 ±0.05<br>(0.006 ±0.002) |
| 0402          | 1005             | 1.00 ±0.05<br>(0.039 ±0.002)           | 0.50 ±0.05<br>(0.020 ±0.002) | 0.50 ±0.05<br>(0.020 ±0.002) | 0.25 ±0.10<br>(0.010 ±0.004) |
| 0603          | 1608             | 1.6 ±0.15<br>(0.063 ±0.006)            | 0.8 ±0.15<br>(0.031 ±0.006)  | 0.8 ±0.15<br>(0.031 ±0.006)  | 0.3 ±0.2<br>(0.012 ±0.008)   |
| 0805          | 2125             | 2.0 +0.3/-0.1<br>(0.079 +0.012/-0.004) | 1.25 ±0.2<br>(0.049 ±0.008)  | 0.85 ±0.2<br>(0.033 ±0.008)  | 0.5 ±0.3<br>(0.020 ±0.012)   |

# Multilayer Ferrite Chip Beads - Z-SMS, Z-PMS Series

## 0201 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

| Ordering Code  | Impedance ( $\Omega$ ) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance ( $\Omega$ ) | Maximum Rated Current (mA) | Thickness mm (inches)               | Tape & Reel Packaging Quantity |
|----------------|-----------------------------------|---------------------------|------------------------------------|----------------------------|-------------------------------------|--------------------------------|
| Z0201C220ASMST | 22                                | 100                       | 0.10                               | 500                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C330ASMST | 33                                | 100                       | 0.20                               | 350                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C800ASMST | 80                                | 100                       | 0.40                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C121ASMST | 120                               | 100                       | 0.50                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C241ASMST | 240                               | 100                       | 0.80                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C600BSMST | 60                                | 100                       | 0.40                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C121BSMST | 120                               | 100                       | 0.50                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C241BSMST | 240                               | 100                       | 0.80                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C100CSMST | 10                                | 100                       | 0.40                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C220CSMST | 22                                | 100                       | 0.50                               | 200                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C330CSMST | 33                                | 100                       | 0.80                               | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |
| Z0201C470CSMST | 47                                | 100                       | 1.00                               | 150                        | 0.30 $\pm$ 0.03 (0.012 $\pm$ 0.001) | 15,000                         |

## 0402 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

| Ordering Code  | Impedance ( $\Omega$ ) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance ( $\Omega$ ) | Maximum Rated Current (mA) | Thickness mm (inches)               | Tape & Reel Packaging Quantity |
|----------------|-----------------------------------|---------------------------|------------------------------------|----------------------------|-------------------------------------|--------------------------------|
| Z0402C680ESMST | 68                                | 100                       | 0.17                               | 500                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C121ESMST | 120                               | 100                       | 0.24                               | 450                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C241ESMST | 240                               | 100                       | 0.31                               | 400                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C431ESMST | 430                               | 100                       | 0.50                               | 350                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C601ESMST | 600                               | 100                       | 0.60                               | 300                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C100ASMST | 10                                | 100                       | 0.05                               | 1000                       | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C330ASMST | 33                                | 100                       | 0.10                               | 700                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C680ASMST | 68                                | 100                       | 0.13                               | 600                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C121ASMST | 120                               | 100                       | 0.23                               | 500                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C241ASMST | 240                               | 100                       | 0.33                               | 400                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C601ASMST | 600                               | 100                       | 0.58                               | 300                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C121BSMST | 120                               | 100                       | 0.25                               | 300                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C241BSMST | 240                               | 100                       | 0.36                               | 300                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C471BSMST | 470                               | 100                       | 0.56                               | 250                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C601BSMST | 600                               | 100                       | 0.59                               | 250                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C102BSMST | 1000                              | 100                       | 0.80                               | 150                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C100CSMST | 10                                | 100                       | 0.15                               | 500                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C220CSMST | 22                                | 100                       | 0.20                               | 400                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C330CSMST | 33                                | 100                       | 0.30                               | 400                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C470CSMST | 47                                | 100                       | 0.35                               | 350                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C680CSMST | 68                                | 100                       | 0.31                               | 400                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C121CSMST | 120                               | 100                       | 0.45                               | 350                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C181CSMST | 180                               | 100                       | 0.53                               | 300                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |
| Z0402C241CSMST | 240                               | 100                       | 0.70                               | 250                        | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |

## 0402 Multilayer Ferrite Chip Beads For Power Lines (Z-PMS Series)

| Ordering Code  | Impedance ( $\Omega$ ) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance ( $\Omega$ ) | Maximum Rated Current (mA) | Thickness mm (inches)               | Tape & Reel Packaging Quantity |
|----------------|-----------------------------------|---------------------------|------------------------------------|----------------------------|-------------------------------------|--------------------------------|
| Z0402C121APMST | 120                               | 100                       | 0.14                               | 1000                       | 0.50 $\pm$ 0.05 (0.020 $\pm$ 0.002) | 10,000                         |



### 0603 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

| Ordering Code  | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches)     | Tape & Reel Packaging Quantity |
|----------------|--------------------|---------------------------|---------------------------|----------------------------|---------------------------|--------------------------------|
| Z0603C121ESMST | 120                | 100                       | 0.15                      | 600                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C241ESMST | 240                | 100                       | 0.25                      | 450                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C431ESMST | 430                | 100                       | 0.30                      | 400                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C601ESMST | 600                | 100                       | 0.40                      | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C220ASMST | 22                 | 100                       | 0.05                      | 1500                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C330ASMST | 33                 | 100                       | 0.08                      | 1200                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C470ASMST | 47                 | 100                       | 0.10                      | 900                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C600ASMST | 60                 | 100                       | 0.10                      | 800                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C800ASMST | 80                 | 100                       | 0.10                      | 600                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C121ASMST | 120                | 100                       | 0.18                      | 500                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C241ASMST | 240                | 100                       | 0.25                      | 400                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C601ASMST | 600                | 100                       | 0.45                      | 350                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C102ASMST | 1000               | 100                       | 0.60                      | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C121BSMST | 120                | 100                       | 0.20                      | 350                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C241BSMST | 240                | 100                       | 0.35                      | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C471BSMST | 470                | 100                       | 0.45                      | 250                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C601BSMST | 600                | 100                       | 0.60                      | 250                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C102BSMST | 1000               | 100                       | 0.70                      | 200                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C300CSMST | 30                 | 100                       | 0.20                      | 500                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C470CSMST | 47                 | 100                       | 0.30                      | 400                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C560CSMST | 56                 | 100                       | 0.30                      | 400                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C680CSMST | 68                 | 100                       | 0.35                      | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C121CSMST | 120                | 100                       | 0.50                      | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C181CSMST | 180                | 100                       | 0.65                      | 250                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C241CSMST | 240                | 100                       | 0.80                      | 250                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C331CSMST | 330                | 100                       | 0.85                      | 200                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C431CSMST | 430                | 100                       | 0.85                      | 200                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C511CSMST | 510                | 100                       | 0.90                      | 200                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C681CSMST | 680                | 100                       | 1.00                      | 150                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C751DSMST | 750                | 100                       | 0.60                      | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C152DSMST | 1500               | 100                       | 0.75                      | 250                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C182DSMST | 1800               | 100                       | 0.85                      | 200                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C252DSMST | 2500               | 100                       | 1.10                      | 200                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C431FSMST | 430                | 100                       | 0.25 ±30%                 | 400                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C601FSMST | 600                | 100                       | 0.27 ±30%                 | 350                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C102FSMST | 1000               | 100                       | 0.35 ±30%                 | 300                        | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |

### 0603 Multilayer Ferrite Chip Beads For Power Lines (Z-PMS Series)

| Ordering Code  | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches)     | Tape & Reel Packaging Quantity |
|----------------|--------------------|---------------------------|---------------------------|----------------------------|---------------------------|--------------------------------|
| Z0603C330APMST | 33                 | 100                       | 0.025                     | 3000                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C600APMST | 60                 | 100                       | 0.040                     | 2500                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C101APMST | 100                | 100                       | 0.050                     | 1700                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C121APMST | 120                | 100                       | 0.035                     | 2700                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C181APMST | 180                | 100                       | 0.075                     | 1500                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C271APMST | 270                | 100                       | 0.110                     | 1200                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |
| Z0603C391APMST | 390                | 100                       | 0.140                     | 1000                       | 0.80 ±0.15 (0.031 ±0.006) | 4,000                          |

# Multilayer Ferrite Chip Beads - Z-SMS, Z-PMS Series

## 0805 Multilayer Ferrite Chip Beads Standard Type (Z-SMS Series)

| Ordering Code  | Impedance ( $\Omega$ ) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance ( $\Omega$ ) | Maximum Rated Current (mA) | Thickness mm (inches)              | Tape & Reel Packaging Quantity |
|----------------|-----------------------------------|---------------------------|------------------------------------|----------------------------|------------------------------------|--------------------------------|
| Z0805C150ASMST | 15                                | 100                       | 0.05                               | 1200                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C220ASMST | 22                                | 100                       | 0.05                               | 1200                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C330ASMST | 33                                | 100                       | 0.05                               | 1200                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C470ASMST | 47                                | 100                       | 0.05                               | 1000                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C750ASMST | 75                                | 100                       | 0.10                               | 1000                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C101ASMST | 100                               | 100                       | 0.10                               | 900                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C121ASMST | 120                               | 100                       | 0.15                               | 800                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C241ASMST | 240                               | 100                       | 0.20                               | 600                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C431ASMST | 430                               | 100                       | 0.25                               | 500                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C601ASMST | 600                               | 100                       | 0.30                               | 500                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C102ASMST | 1000                              | 100                       | 0.40                               | 300                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C121BSMST | 120                               | 100                       | 0.15                               | 800                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C241BSMST | 240                               | 100                       | 0.20                               | 600                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C471BSMST | 470                               | 100                       | 0.25                               | 500                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C601BSMST | 600                               | 100                       | 0.25                               | 500                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C102BSMST | 1000                              | 100                       | 0.35                               | 400                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C560CSMST | 56                                | 100                       | 0.20                               | 600                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C121CSMST | 120                               | 100                       | 0.30                               | 400                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C241CSMST | 240                               | 100                       | 0.35                               | 300                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C751DSMST | 750                               | 100                       | 0.30                               | 400                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C152DSMST | 1500                              | 100                       | 0.35                               | 400                        | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C182DSMST | 1800                              | 100                       | 0.45                               | 300                        | 1.25 $\pm$ 0.2 (0.049 $\pm$ 0.008) | 2,000                          |
| Z0805C252DSMST | 2500                              | 100                       | 0.75                               | 200                        | 1.25 $\pm$ 0.2 (0.049 $\pm$ 0.008) | 2,000                          |

## 0805 Multilayer Ferrite Chip Beads For Power Lines (Z-PMS Series)

| Ordering Code  | Impedance ( $\Omega$ ) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance ( $\Omega$ ) | Maximum Rated Current (mA) | Thickness mm (inches)              | Tape & Reel Packaging Quantity |
|----------------|-----------------------------------|---------------------------|------------------------------------|----------------------------|------------------------------------|--------------------------------|
| Z0805C330APMST | 33                                | 100                       | 0.020                              | 4000                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C600APMST | 60                                | 100                       | 0.025                              | 3000                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C101APMST | 100                               | 100                       | 0.040                              | 2500                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |
| Z0805C221APMST | 220                               | 100                       | 0.050                              | 2000                       | 0.85 $\pm$ 0.2 (0.033 $\pm$ 0.008) | 4,000                          |



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