



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 (0.063 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.35 ±0.2 (0.014 ±0.008) |
| 0805 | 2012 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 0806 | 2016 | 2.0 ±0.2 (0.079 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 1007 | 2518 | 2.5 ±0.2 (0.098 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 1207 | 3218 | 3.2 ±0.2 (0.128 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 0.6 ±0.2 (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 (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) ($\pm 30\%$) | 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 (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) ($\pm 30\%$) | 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 (μH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) ($\pm 30\%$) | 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 (0.063 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.4 ±0.15 (0.015 ±0.006) |
| 0805 | 2012 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 0806 | 2016 | 2.0 ±0.2 (0.079 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 1007 | 2518 | 2.5 ±0.2 (0.098 ±0.008) | 1.8 ±0.2 (0.071 ±0.008) | 1.8 ±0.2 (0.071 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 1210 | 3225 | 3.2 ±0.2 (0.126 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) | 0.6 ±0.3 (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 (0.024 ±0.001) | 0.3 ±0.03 (0.012 ±0.001) | 0.3 ±0.03 (0.012 ±0.001) | 0.15 ±0.05 (0.006 ±0.002) |
| 0402 | 1005 | 1.0 ±0.05 (0.039 ±0.002) | 0.5 ±0.05 (0.02 ±0.002) | 0.5 ±0.05 (0.02 ±0.002) | 0.25 ±0.10 (0.01 ±0.004) |
| 0603 | 1608 | 1.6 ±0.15 (0.063 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.3 ±0.2 (0.012 ±0.008) |
| 0805 | 2125 | 2.0 +0.3/-0.1 (0.079 +0.012/-0.004) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 1.0 +0.2/-0.3 (0.033 ±0.008) (0.039 +0.008/-0.012) | 0.5 ±0.3 (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 (Ω) | | 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 (Ω) | | 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 |
| L0402C10N1JRMST | 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 |
| L0402C12N1JRMST | 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 |
| L0402C15N1JRMST | 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 |
| L0402C18N1JRMST | 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 |
| L0402C22N1JRMST | 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 |
| L0402C27N1JRMST | 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 |
| L0402C33N1JRMST | 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 |
| L0402C39N1JRMST | 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 |
| L0402C47N1JRMST | 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 |
| L0402C56N1JRMST | 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 |
| L0402C68N1JRMST | 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 |
| L0402C82N1JRMST | 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 (Ω) | | 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 | ± 0.3 nH | 10 | 100 | 21 | 39 | 57 | 61 | 68 | 4000 | >6000 | 0.10 | 0.02 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C1N8SRMST | 1.8 | ± 0.3 nH | 10 | 100 | 18 | 35 | 49 | 55 | 59 | 4000 | >6000 | 0.10 | 0.02 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C2N2SRMST | 2.2 | ± 0.3 nH | 10 | 100 | 18 | 33 | 46 | 53 | 58 | 4000 | >6000 | 0.10 | 0.03 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C2N7SRMST | 2.7 | ± 0.3 nH | 12 | 100 | 19 | 36 | 50 | 56 | 60 | 4000 | >6000 | 0.10 | 0.03 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C3N3SRMST | 3.3 | ± 0.3 nH | 12 | 100 | 16 | 29 | 40 | 47 | 51 | 4000 | >6000 | 0.13 | 0.04 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C3N9SRMST | 3.9 | ± 0.3 nH | 12 | 100 | 18 | 33 | 46 | 54 | 60 | 4000 | >6000 | 0.15 | 0.05 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C4N7SRMST | 4.7 | ± 0.3 nH | 12 | 100 | 18 | 34 | 46 | 55 | 60 | 3500 | >6000 | 0.20 | 0.05 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C5N6SRMST | 5.6 | ± 0.3 nH | 15 | 100 | 20 | 38 | 51 | 60 | 66 | 3200 | 5400 | 0.23 | 0.05 | 300 | 0.85 ± 0.2 (0.033 ± 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 ± 0.2 (0.033 ± 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 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C10NJRMST | 10 | $\pm 5\%$ | 15 | 100 | 20 | 38 | 51 | 60 | 67 | 2100 | 3100 | 0.30 | 0.09 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C12NJRMST | 12 | $\pm 5\%$ | 15 | 100 | 21 | 39 | 52 | 60 | 67 | 1900 | 3000 | 0.35 | 0.10 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C15NJRMST | 15 | $\pm 5\%$ | 15 | 100 | 22 | 42 | 55 | 63 | 72 | 1600 | 2600 | 0.40 | 0.11 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C18NJRMST | 18 | $\pm 5\%$ | 15 | 100 | 24 | 44 | 57 | 63 | 72 | 1500 | 2300 | 0.45 | 0.13 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C22NJRMST | 22 | $\pm 5\%$ | 18 | 100 | 23 | 43 | 55 | 60 | 69 | 1400 | 2100 | 0.50 | 0.16 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C27NJRMST | 27 | $\pm 5\%$ | 18 | 100 | 23 | 42 | 53 | 58 | 68 | 1300 | 1800 | 0.55 | 0.17 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C33NJRMST | 33 | $\pm 5\%$ | 18 | 100 | 24 | 43 | 54 | 55 | 60 | 1200 | 1700 | 0.60 | 0.19 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C39NJRMST | 39 | $\pm 5\%$ | 18 | 100 | 23 | 41 | 50 | 47 | 47 | 1000 | 1400 | 0.65 | 0.25 | 300 | 0.85 ± 0.2 (0.033 ± 0.008) | 4,000 |
| L0805C47NJRMST | 47 | $\pm 5\%$ | 18 | 100 | 23 | 41 | 49 | 43 | 41 | 900 | 1200 | 0.70 | 0.26 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 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 ± 0.2 -0.3 (0.039 ± 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 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805C82NJRMST | 82 | $\pm 5\%$ | 18 | 100 | 24 | 41 | 41 | - | - | 600 | 800 | 0.90 | 0.37 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR10JRMST | 100 | $\pm 5\%$ | 18 | 100 | 23 | 37 | 37 | - | - | 600 | 800 | 0.90 | 0.40 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR12JRMST | 120 | $\pm 5\%$ | 13 | 50 | 22 | 33 | 29 | - | - | 500 | 700 | 0.95 | 0.43 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR15JRMST | 150 | $\pm 5\%$ | 13 | 50 | 22 | 34 | 26 | - | - | 500 | 700 | 1.00 | 0.46 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR18JRMST | 180 | $\pm 5\%$ | 13 | 50 | 23 | 34 | 20 | - | - | 400 | 600 | 1.10 | 0.50 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR22JRMST | 220 | $\pm 5\%$ | 12 | 50 | 20 | 23 | - | - | - | 350 | 550 | 1.20 | 0.75 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR27JRMST | 270 | $\pm 5\%$ | 12 | 50 | 20 | 19 | - | - | - | 300 | 480 | 1.30 | 0.85 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR33JRMST | 330 | $\pm 5\%$ | 12 | 50 | 22 | 15 | - | - | - | 250 | 400 | 1.40 | 0.90 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR39JRMST | 390 | $\pm 5\%$ | 10 | 50 | 17 | 12 | - | - | - | 250 | 400 | 1.30 | 0.85 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 0.008 / -0.012) | 3,000 |
| L0805CR47JRMST | 470 | $\pm 5\%$ | 10 | 50 | 17 | - | - | - | - | 200 | 350 | 1.50 | 0.95 | 300 | 1.0 ± 0.2 -0.3 (0.039 ± 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 (0.039 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.25 ±0.10 (0.010 ±0.004) |
| 0603 | 1608 | 1.6 ±0.15 (0.063 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.3 ±0.2 (0.012 ±0.008) |
| 0805 | 2125 | 2.0 +0.3/-0.1 (0.079 _0.012/-0.004) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 1.25 ±0.2 (0.033 ±0.008) (0.049 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 1008 | 2520 | 2.5 ± 0.2 (0.098 ± 0.008) | 2.0 ± 0.2 (0.079 ± 0.008) | 1.0 Max. (0.039) | 0.5 ± 0.3 (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 (0.118 ±0.004) | 3.0 ±0.1 (0.118 ±0.004) | 1.0 max. (0.039 max.) | 0.9 ±0.2 (0.035 ±0.008) | 1.9 ±0.2 (0.075 ±0.008) |
| 4010 | 4.0 ±0.2 (0.157 ±0.008) | 4.0 ±0.2 (0.157 ±0.008) | 1.0 max. (0.039 max.) | 1.1 ±0.2 (0.043 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) |
| 4012 | 4.0 ±0.2 (0.157 ±0.008) | 4.0 ±0.2 (0.157 ±0.008) | 1.2 max. (0.047 max.) | 1.1 ±0.2 (0.043 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) |
| 4018 | 4.0 ±0.2 (0.157 ±0.008) | 4.0 ±0.2 (0.157 ±0.008) | 1.8 max. (0.071 max.) | 1.1 ±0.2 (0.043 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) |
| 8040 | 8.0 ±0.2 (0.315 ±0.008) | 8.0 ±0.2 (0.315 ±0.008) | 4.2 max (0.165 max) | 1.6 ±0.3 (0.063 ±0.012) | 5.6 ±0.3 (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 (0.063 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.3 ±0.2 (0.012 ±0.008) |
| | 0805 | 2125 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 (0.02 ±0.002) | 0.5 ±0.3 (0.020 ±0.012) |
| | 1206 | 3216 | 3.2 ±0.3 (0.126 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 1806 | 4516 | 4.5 ±0.3 (0.177 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| Z-PWZ | 0603 | 1608 | 1.6 ±0.1 (0.063 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.3 ±0.15 (0.012 ±0.006) |
| | 0805 | 2012 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 (0.02 ±0.002) | 0.5 ±0.3 (0.020 ±0.012) |
| | 0806 | 2016 | 2.0 ±0.2 (0.079 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 1206 | 3216 | 3.2 ±0.3 (0.126 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 1210 | 3225 | 3.2 ±0.3 (0.126 ±0.012) | 2.5 ±0.3 (0.098 ±0.012) | 2.5 ±0.3 (0.098 ±0.012) | 0.5 ±0.3 (0.020 ±0.012) |
| | 1806 | 4516 | 4.5 ±0.3 (0.177 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 1810 | 4525 | 4.5 ±0.4 (0.177 ±0.016) | 2.5 ±0.3 (0.098 ±0.012) | 2.5 ±0.3 (0.098 ±0.012) | 0.9 ±0.6 (0.035 ±0.024) |
| | 1812 | 4532 | 4.5 ±0.4 (0.177 ±0.016) | 3.2 ±0.3 (0.126 ±0.012) | 3.2 ±0.3 (0.126 ±0.012) | 0.9 ±0.6 (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 |
|--|---------------|---------------|---------------------------|---------------------------|---------------------------|--------------------------|--------------------------------|
| 0603 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| 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 |
| 0805 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| 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 |
| 0806 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| 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 |
| 1206 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| Z1206C501BPWZT | 1206 | 500 ±30% | 100 | 0.07 | 2 | 1.6 ±0.2 (0.063 ±0.008) | 2,000 |
| 1210 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| 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 |
| 1806 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| Z1806C851BPWZT | 1806 | 850 ±30% | 100 | 0.1 | 1.5 | 1.6 ±0.2 (0.063 ±0.008) | 1,000 |
| 1810 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| 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 |
| 1812 Case Size High Impedance Ferrite Chip Beads (Z-PWZ Series) | | | | | | | |
| 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 (0.2 ±0.001) | 0.30 ±0.03 (0.012 ±0.001) | 0.30 ±0.03 (0.012 ±0.001) | 0.15 ±0.05 (0.006 ±0.002) |
| 0402 | 1005 | 1.00 ±0.05 (0.039 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.25 ±0.10 (0.010 ±0.004) |
| 0603 | 1608 | 1.6 ±0.15 (0.063 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.3 ±0.2 (0.012 ±0.008) |
| 0805 | 2125 | 2.0 +0.3/-0.1 (0.079 +0.012/-0.004) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 (0.033 ±0.008) | 0.5 ±0.3 (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 (Ω) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | 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 (Ω) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | 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 (Ω) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | 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 (Ω) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | 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 (Ω) $\pm 25\%$ | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | 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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