

# Type 101C $-55\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$ Low-ESR, Wide-Temperature Grade



## The Ultimate in Cold Performance and ESR

The Type 101C is the wide-temperature, low voltage version of the Type 550C. It is ideal for high-ripple current military and industrial applications that need full performance to  $-40\text{ }^{\circ}\text{C}$  and solid performance to  $-55\text{ }^{\circ}\text{C}$ . It also excels as a power-supply output capacitor because of its exceptionally low ESR. The extended cathode foil of the 101C assures heat flow from the capacitor element to the can in all mounting orientations.

## Highlights

- 5,000 hour load life
- Ripple Current to  $> 100$  amps @  $55\text{ }^{\circ}\text{C}$
- ESRs to  $2.5\text{ m}\Omega$
- $> 90\%$  capacitance at  $-40\text{ }^{\circ}\text{C}$
- Thermal-Pak™ extended cathode construction

## Specifications

|                                    |   |
|------------------------------------|---|
| <b>Operating Temperature:</b>      | $-55\text{ }^{\circ}\text{C}$ to $+105\text{ }^{\circ}\text{C}$                   |
| <b>Rated Voltage:</b>              | 7.5 to 250 Vdc  |
| <b>Capacitance:</b>                | 290 $\mu\text{F}$ to 1.5 F  |
| <b>Capacitance Tolerance:</b>      | 7.5 to 150 Vdc: $-10\%$ $+75\%$ , 200 & 250 Vdc: $10\%$ $+50\%$                   |
| <b>DCL Leakage Current:</b>        | $\leq 1.5\sqrt{CV}\text{ }\mu\text{A}$ (4mA max. 5 minutes)                       |
| <b>Cold Impedence:</b>             | $-55\text{ }^{\circ}\text{C}$ multiple of $25\text{ }^{\circ}\text{C}$ $Z \leq 3$ |
| <b>Ripple Current Multipliers:</b> |   |

### Ambient Temperature

| 45 °C | 55 °C | 65 °C | 75 °C | 85 °C | 95 °C | 105 °C |
|-------|-------|-------|-------|-------|-------|--------|
| 1.66  | 1.52  | 1.37  | 1.20  | 1.00  | 0.75  | 0.36   |

### Frequency

|                                      | 50 Hz | 60 Hz | 120 Hz | 360 Hz | 1 kHz | 5 kHz | 10 kHz & up |
|--------------------------------------|-------|-------|--------|--------|-------|-------|-------------|
| <b>1 3/8" &amp; 1 3/4" Diameters</b> |       |       |        |        |       |       |             |
| <b>7.5 to 150 V</b>                  | 0.91  | 0.93  | 1.00   | 1.06   | 1.08  | 1.09  | 1.09        |
| <b>200 &amp; 250 V</b>               | 0.82  | 0.86  | 1.00   | 1.14   | 1.20  | 1.23  | 1.23        |
| <b>2" &amp; 2 1/2" Diameters</b>     |       |       |        |        |       |       |             |
| <b>7.5 to 150 V</b>                  | 0.92  | 0.94  | 1.00   | 1.05   | 1.07  | 1.08  | 1.08        |
| <b>200 &amp; 250 V</b>               | 0.82  | 0.86  | 1.00   | 1.14   | 1.20  | 1.23  | 1.27        |
| <b>3" Diameters</b>                  |       |       |        |        |       |       |             |
| <b>7.5 to 150 V</b>                  | 0.95  | 0.96  | 1.00   | 1.03   | 1.04  | 1.05  | 1.05        |
| <b>200 &amp; 250 V</b>               | 0.85  | 0.88  | 1.00   | 1.11   | 1.15  | 1.18  | 1.18        |



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

|                         |   |
|-------------------------|---|
| <b>EIA Ripple Life:</b> | 5,000 h at full load @ $85\text{ }^{\circ}\text{C}$ per EIA IS-749<br>$\Delta$ Capacitance $\pm 20\%$<br>ESR 200% of limit<br>DCL 100% of limit |
| <b>Life Test:</b>       | 2,000 h at $105\text{ }^{\circ}\text{C}$ and rated voltage<br>$\Delta$ Capacitance $\pm 20\%$<br>ESR 200% of limit<br>DCL 100% of limit         |
| <b>Shelf Life:</b>      | 500 h @ $105\text{ }^{\circ}\text{C}$ , Capacitance, ESR and DCL, initial requirements.   |
| <b>Vibration:</b>       | 10 to 55 Hz, 0.06" and 10 g max, 1.5 h ea. of 2 axis  |

# Type 101C $-55\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$ Low-ESR, Wide-Temperature Grade

## Outline Drawing



## Case Dimensions

### Uninsulated Case Dimensions

For insulated case, add 0.024”(0.610 mm) to “D” and 0.030”(0.762 mm) to height.

| Case Code | Diam. (D)             |                  | Length (L)            |                  | Terminals (S)         |                  | Typical Weight |      |
|-----------|-----------------------|------------------|-----------------------|------------------|-----------------------|------------------|----------------|------|
|           | $\pm 0.031$<br>Inches | $\pm 0.78$<br>mm | $\pm 0.062$<br>Inches | $\pm 1.57$<br>mm | $\pm 0.015$<br>Inches | $\pm 0.38$<br>mm | oz             | g    |
| AK        | 1.375                 | 34.93            | 1.625                 | 41.28            | 0.50                  | 12.70            | 1.9            | 54   |
| AA        | 1.375                 | 34.93            | 2.125                 | 53.98            | 0.50                  | 12.70            | 2.0            | 57   |
| AH        | 1.375                 | 34.93            | 2.625                 | 66.68            | 0.50                  | 12.70            | 2.7            | 77   |
| AB        | 1.375                 | 34.93            | 3.125                 | 79.38            | 0.50                  | 12.70            | 3.3            | 94   |
| AJ        | 1.375                 | 34.93            | 3.625                 | 92.08            | 0.50                  | 12.70            | 3.8            | 108  |
| AC        | 1.375                 | 34.93            | 4.125                 | 104.78           | 0.50                  | 12.70            | 4.4            | 125  |
| AD        | 1.375                 | 34.93            | 4.625                 | 117.48           | 0.50                  | 12.70            | 5.1            | 145  |
| AE        | 1.375                 | 34.93            | 5.125                 | 130.18           | 0.50                  | 12.70            | 6.8            | 193  |
| AF        | 1.375                 | 34.93            | 5.625                 | 142.88           | 0.50                  | 12.70            | 8.1            | 230  |
| EA        | 1.750                 | 44.45            | 2.125                 | 53.98            | 0.75                  | 19.05            | 2.7            | 76   |
| EH        | 1.750                 | 44.45            | 2.625                 | 66.68            | 0.75                  | 19.05            | 3.8            | 108  |
| EB        | 1.750                 | 44.45            | 3.125                 | 79.38            | 0.75                  | 19.05            | 5.1            | 145  |
| EJ        | 1.750                 | 44.45            | 3.625                 | 92.08            | 0.75                  | 19.05            | 6.8            | 193  |
| EC        | 1.750                 | 44.45            | 4.125                 | 104.78           | 0.75                  | 19.05            | 8.1            | 230  |
| ED        | 1.750                 | 44.45            | 4.625                 | 117.48           | 0.75                  | 19.05            | 9.0            | 255  |
| EE        | 1.750                 | 44.45            | 5.125                 | 130.18           | 0.75                  | 19.05            | 9.5            | 269  |
| EF        | 1.750                 | 44.45            | 5.625                 | 142.88           | 0.75                  | 19.05            | 10.5           | 298  |
| BA        | 2.000                 | 50.80            | 2.125                 | 53.98            | 0.75                  | 22.23            | 5.4            | 153  |
| BH        | 2.000                 | 50.80            | 2.625                 | 66.68            | 0.75                  | 22.23            | 6.1            | 173  |
| BB        | 2.000                 | 50.80            | 3.125                 | 79.38            | 0.75                  | 22.23            | 6.8            | 193  |
| BJ        | 2.000                 | 50.80            | 3.625                 | 92.08            | 0.75                  | 22.23            | 8.2            | 232  |
| BC        | 2.000                 | 50.80            | 4.125                 | 104.78           | 0.75                  | 22.23            | 9.5            | 269  |
| BD        | 2.000                 | 50.80            | 4.625                 | 117.48           | 0.75                  | 22.23            | 10.3           | 292  |
| BE        | 2.000                 | 50.80            | 5.125                 | 130.18           | 0.75                  | 22.23            | 10.7           | 303  |
| BF        | 2.000                 | 50.80            | 5.625                 | 142.88           | 0.75                  | 22.23            | 13.0           | 369  |
| CH        | 2.500                 | 63.50            | 2.625                 | 66.68            | 1.25                  | 28.58            | 9.2            | 261  |
| CB        | 2.500                 | 63.50            | 3.125                 | 79.38            | 1.25                  | 28.58            | 10.4           | 295  |
| CJ        | 2.500                 | 63.50            | 3.625                 | 92.08            | 1.25                  | 28.58            | 12.7           | 361  |
| CC        | 2.500                 | 63.50            | 4.125                 | 104.78           | 1.25                  | 28.58            | 15.0           | 425  |
| CD        | 2.500                 | 63.50            | 4.625                 | 117.48           | 1.25                  | 28.58            | 17.2           | 488  |
| CE        | 2.500                 | 63.50            | 5.125                 | 130.18           | 1.25                  | 28.58            | 19.3           | 547  |
| CF        | 2.500                 | 63.50            | 5.625                 | 142.88           | 1.25                  | 28.58            | 21.4           | 607  |
| DB        | 3.000                 | 76.20            | 3.125                 | 79.38            | 1.25                  | 31.75            | 16.7           | 473  |
| DJ        | 3.000                 | 76.20            | 3.625                 | 92.08            | 1.25                  | 31.75            | 20.0           | 567  |
| DC        | 3.000                 | 76.20            | 4.125                 | 104.78           | 1.25                  | 31.75            | 22.2           | 629  |
| DD        | 3.000                 | 76.20            | 4.625                 | 117.48           | 1.25                  | 31.75            | 25.5           | 723  |
| DE        | 3.000                 | 76.20            | 5.125                 | 130.18           | 1.25                  | 31.75            | 30.0           | 850  |
| DF        | 3.000                 | 76.20            | 5.625                 | 142.88           | 1.25                  | 31.75            | 31.9           | 904  |
| DP        | 3.000                 | 76.20            | 5.875                 | 149.23           | 1.25                  | 31.75            | 32.8           | 931  |
| DN        | 3.000                 | 76.20            | 7.625                 | 193.68           | 1.25                  | 31.75            | 39.5           | 1119 |
| DG        | 3.000                 | 76.20            | 8.625                 | 219.08           | 1.25                  | 31.75            | 43.3           | 1227 |

NOTE: With the stud-mount feature, a thermally-conductive disk can be inserted in the bottom flush with the outer insulating sleeve. This reduces the thermal resistance through the can bottom by  $0.3\text{ }^{\circ}\text{C/W}$ . Can Style P.

## Stud Dimensions

| Case Diam. | Stud Thread | $P\pm 0.039$<br>( $\pm 1.0$ mm) |
|------------|-------------|---------------------------------|
| 1.38       | M8          | 0.470” (12.0)                   |
| 1.75       | M8          | 0.470” (12.0)                   |
| 2.00       | M12         | 0.630” (16.0)                   |
| 2.50       | M12         | 0.630” (16.0)                   |
| 3.00       | M12         | 0.630” (16.0)                   |

## Terminal Dimensions

| Terminal Style    | For Case Diameters   | Code | Post Diameter |      | H max |     | Thread            | min Full Thread |     | Torque |      |
|-------------------|----------------------|------|---------------|------|-------|-----|-------------------|-----------------|-----|--------|------|
|                   |                      |      | in            | mm   | in    | mm  |                   | in              | mm  | in-lb  | N-m  |
| Low Post          | 1 $\frac{3}{8}$ to 3 | A    | 0.314         | 8.0  | 0.094 | 2.4 | 10-32             | 0.218           | 5.5 | 25     | 2.82 |
| High Post         | 1 $\frac{3}{8}$ to 3 | B    | 0.314         | 8.0  | 0.281 | 7.1 | 10-32             | 0.375           | 9.5 | 25     | 2.82 |
| High Current, Med | 2 $\frac{1}{2}$ & 3  | D    | 0.434         | 11.0 | 0.190 | 4.8 | $\frac{1}{4}$ -28 | 0.312           | 7.9 | 50     | 5.65 |

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# Type 101C $-55^{\circ}\text{C}$ to $105^{\circ}\text{C}$ Low-ESR, Wide-Temperature Grade

## Part Numbering System

|                   |  |   |   |                      |   |   |  |
|-------------------|--|---|---|----------------------|---|---|--|
| 101C<br> <br>Type | 183<br> <br>Capacitance<br>100 = 10 $\mu\text{F}$<br>101 = 100 $\mu\text{F}$<br>183 = 18,000 $\mu\text{F}$ | T<br> <br>Tolerance<br>M = $\pm 20\%$<br>U = $-10\%+75\%$<br>T = $-10\%+50\%$ | 250<br> <br>Voltage<br>7R5 = 7.5 Vdc<br>063 = 63 Vdc<br>100 = 100 Vdc | DG<br> <br>Case Code | 2<br> <br>Insulation<br>0= None<br>1= Polyester<br>2= PVC | D<br> <br>Terminal<br>A = Low Post<br>B = High Post<br>D = High Current | S<br> <br>Can Style<br>Blank= Standard Can<br>S= Stud Bottom<br>P= Stud with Thermal Pad |
|-------------------|--|---|---|----------------------|---|---|--|

Standard insulation is 0.008-in PVC sleeve with 0.01-in polypropylene end disk.

## Typical Performance Curves



# Type 101C -55 °C to 105 °C Low-ESR, Wide-Temperature Grade

## Ratings

| Cap.<br>(µF)                  | Catalog<br>Part Number | ESR Max.<br>@ 25 °C<br>120 Hz<br>(mΩ) | Ripple Max.<br>@ 85°C<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) | Cap.<br>(µF)                 | Catalog<br>Part Number | ESR Max.<br>@ 25 °C<br>120 Hz<br>(mΩ) | Ripple Max.<br>@ 85°C<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|-------------------------------|------------------------|---------------------------------------|--|-----------------------------------|------------------------------|------------------------|---------------------------------------|--|-----------------------------------|
| <b>7.5 Vdc (10 Vdc Surge)</b> |                        |                                       |  |                                   |                              |                        |                                       |  |                                   |
| 28000                         | 101C283U7R5AK2B        | 38.2                                  | 6.1                                    | 1 3/8 x 1 5/8                     | 74000                        | 101C743U010AB2B        | 14.6                                  | 14.2                                   | 1 3/8 x 3 1/8                     |
| 47000                         | 101C473U7R5AA2B        | 25.0                                  | 8.7                                    | 1 3/8 x 2 1/8                     | 89000                        | 101C893U010AJ2B        | 12.5                                  | 16.4                                   | 1 3/8 x 3 5/8                     |
| 66000                         | 101C663U7R5AH2B        | 19.0                                  | 11.4                                   | 1 3/8 x 2 5/8                     | 99000                        | 101C993U010EH2B        | 16.6                                  | 14.6                                   | 1 3/4 x 2 5/8                     |
| 79000                         | 101C793U7R5BA2B        | 18.3                                  | 14.0                                   | 2 x 2 1/8                         | 110000                       | 101C114U010BH2B        | 12.1                                  | 18.6                                   | 2 x 2 5/8                         |
| 84000                         | 101C843U7R5EA2B        | 22.6                                  | 11.6                                   | 1 3/4 x 2 1/8                     | 110000                       | 101C114U010AC2B        | 11.3                                  | 18.1                                   | 1 3/8 x 4 1/8                     |
| 84000                         | 101C843U7R5AB2B        | 15.4                                  | 13.8                                   | 1 3/8 x 3 1/8                     | 120000                       | 101C124U010AD2B        | 10.3                                  | 19.7                                   | 1 3/8 x 4 5/8                     |
| 100000                        | 101C104U7R5AJ2B        | 13.2                                  | 15.9                                   | 1 3/8 x 3 5/8                     | 130000                       | 101C134U010EB2B        | 13.2                                  | 17.4                                   | 1 3/4 x 3 1/8                     |
| 120000                        | 101C124U7R5EH2B        | 16.5                                  | 14.7                                   | 1 3/4 x 2 5/8                     | 140000                       | 101C144U010AE2B        | 9.4                                   | 21.4                                   | 1 3/8 x 5 1/8                     |
| 120000                        | 101C124U7R5BH2B        | 12.4                                  | 18.3                                   | 2 x 2 5/8                         | 150000                       | 101C154U010BB2B        | 8.1                                   | 24.2                                   | 2 x 3 1/8                         |
| 120000                        | 101C124U7R5AC2B        | 12.1                                  | 17.4                                   | 1 3/8 x 4 1/8                     | 160000                       | 101C164U010EJ2B        | 11.1                                  | 20.0                                   | 1 3/4 x 3 5/8                     |
| 140000                        | 101C144U7R5AD2B        | 10.8                                  | 19.2                                   | 1 3/8 x 4 5/8                     | 160000                       | 101C164U010AF2B        | 8.7                                   | 23.1                                   | 1 3/8 x 5 5/8                     |
| 160000                        | 101C164U7R5EB2B        | 13.2                                  | 17.5                                   | 1 3/4 x 3 1/8                     | 180000                       | 101C184U010CH2B        | 9.2                                   | 24.5                                   | 2 1/2 x 2 5/8                     |
| 160000                        | 101C164U7R5AE2B        | 9.9                                   | 20.9                                   | 1 3/8 x 5 1/8                     | 180000                       | 101C184U010BJ2B        | 7.4                                   | 26.5                                   | 2 x 3 5/8                         |
| 170000                        | 101C174U7R5BB2B        | 8.5                                   | 23.6                                   | 2 x 3 1/8                         | 190000                       | 101C194U010EC2B        | 8.2                                   | 24.4                                   | 1 3/4 x 4 1/8                     |
| 180000                        | 101C184U7R5AF2B        | 9.1                                   | 22.6                                   | 1 3/8 x 5 5/8                     | 220000                       | 101C224U010ED2B        | 8.7                                   | 24.7                                   | 1 3/4 x 4 5/8                     |
| 200000                        | 101C204U7R5EJ2B        | 11.1                                  | 20.1                                   | 1 3/4 x 3 5/8                     | 230000                       | 101C234U010BC2B        | 5.7                                   | 31.7                                   | 2 x 4 1/8                         |
| 210000                        | 101C214U7R5CH2B        | 9.4                                   | 24.2                                   | 2 1/2 x 2 5/8                     | 240000                       | 101C244U010CB2B        | 7.0                                   | 29.7                                   | 2 1/2 x 3 1/8                     |
| 220000                        | 101C224U7R5EC2B        | 8.2                                   | 24.4                                   | 1 3/4 x 4 1/8                     | 250000                       | 101C254U010EE2B        | 8.0                                   | 26.7                                   | 1 3/4 x 5 1/8                     |
| 220000                        | 101C224U7R5BJ2B        | 7.6                                   | 26.2                                   | 2 x 3 5/8                         | 260000                       | 101C264U010BD2B        | 5.5                                   | 33.5                                   | 2 x 4 5/8                         |
| 260000                        | 101C264U7R5BC2B        | 6.0                                   | 31.0                                   | 2 x 4 1/8                         | 280000                       | 101C284U010EF2B        | 7.4                                   | 28.7                                   | 1 3/4 x 5 5/8                     |
| 270000                        | 101C274U7R5ED2B        | 8.7                                   | 24.7                                   | 1 3/4 x 4 5/8                     | 300000                       | 101C304U010CJ2D        | 5.7                                   | 34.6                                   | 2 1/2 x 3 5/8                     |
| 280000                        | 101C284U7R5CB2B        | 7.2                                   | 29.4                                   | 2 1/2 x 3 1/8                     | 300000                       | 101C304U010BE2B        | 5.0                                   | 36.5                                   | 2 x 5 1/8                         |
| 300000                        | 101C304U7R5BD2B        | 5.7                                   | 32.9                                   | 2 x 4 5/8                         | 340000                       | 101C344U010BF2B        | 4.7                                   | 38.9                                   | 2 x 5 5/8                         |
| 310000                        | 101C314U7R5EE2B        | 7.9                                   | 26.8                                   | 1 3/4 x 5 1/8                     | 360000                       | 101C364U010DB2D        | 7.0                                   | 33.4                                   | 3 x 3 1/8                         |
| 350000                        | 101C354U7R5EF2B        | 7.4                                   | 28.8                                   | 1 3/4 x 5 5/8                     | 370000                       | 101C374U010CC2D        | 4.0                                   | 43.0                                   | 2 1/2 x 4 1/8                     |
| 350000                        | 101C354U7R5BE2B        | 5.2                                   | 35.9                                   | 2 x 5 1/8                         | 430000                       | 101C434U010CD2D        | 4.3                                   | 43.5                                   | 2 1/2 x 4 5/8                     |
| 360000                        | 101C364U7R5CJ2D        | 5.9                                   | 34.2                                   | 2 1/2 x 3 5/8                     | 450000                       | 101C454U010DJ2D        | 5.7                                   | 38.8                                   | 3 x 3 5/8                         |
| 390000                        | 101C394U7R5DB2D        | 7.1                                   | 33.1                                   | 3 x 3 1/8                         | 500000                       | 101C504U010CE2D        | 3.8                                   | 47.5                                   | 2 1/2 x 5 1/8                     |
| 390000                        | 101C394U7R5BF2B        | 4.9                                   | 38.2                                   | 2 x 5 5/8                         | 550000                       | 101C554U010DC2D        | 4.5                                   | 45.5                                   | 3 x 4 1/8                         |
| 430000                        | 101C434U7R5CC2D        | 4.2                                   | 42.4                                   | 2 1/2 x 4 1/8                     | 560000                       | 101C564U010CF2D        | 3.3                                   | 53.0                                   | 2 1/2 x 5 5/8                     |
| 490000                        | 101C494U7R5DJ2D        | 5.8                                   | 38.5                                   | 3 x 3 5/8                         | 640000                       | 101C644U010DD2D        | 4.0                                   | 50.4                                   | 3 x 4 5/8                         |
| 490000                        | 101C494U7R5CD2D        | 4.4                                   | 42.8                                   | 2 1/2 x 4 5/8                     | 740000                       | 101C744U010DE2D        | 3.7                                   | 54.0                                   | 3 x 5 1/8                         |
| 570000                        | 101C574U7R5CE2D        | 4.0                                   | 46.7                                   | 2 1/2 x 5 1/8                     | 840000                       | 101C844U010DF2D        | 3.3                                   | 58.2                                   | 3 x 5 5/8                         |
| 610000                        | 101C614U7R5DC2D        | 4.6                                   | 45.2                                   | 3 x 4 1/8                         | 880000                       | 101C884U010DP2D        | 3.3                                   | 59.2                                   | 3 x 5 7/8                         |
| 640000                        | 101C644U7R5CF2D        | 3.4                                   | 52.1                                   | 2 1/2 x 5 5/8                     | 1200000                      | 101C125U010DN2D        | 2.8                                   | 70.7                                   | 3 x 7 5/8                         |
| 700000                        | 101C704U7R5DD2D        | 4.0                                   | 50.0                                   | 3 x 4 5/8                         | 1400000                      | 101C145U010DG2D        | 2.5                                   | 76.9                                   | 3 x 8 5/8                         |
| 810000                        | 101C814U7R5DE2D        | 3.7                                   | 53.6                                   | 3 x 5 1/8                         | <b>16 Vdc (25 Vdc Surge)</b> |                        |                                       |  |                                   |
| 910000                        | 101C914U7R5DF2D        | 3.4                                   | 57.8                                   | 3 x 5 5/8                         | 16000                        | 101C163U016AK2B        | 39.2                                  | 6.0                                    | 1 3/8 x 1 5/8                     |
| 960000                        | 101C964U7R5DP2D        | 3.4                                   | 58.8                                   | 3 x 5 7/8                         | 27000                        | 101C273U016AA2B        | 26.0                                  | 8.5                                    | 1 3/8 x 2 1/8                     |
| 1300000                       | 101C135U7R5DN2D        | 2.8                                   | 70.2                                   | 3 x 7 5/8                         | 38000                        | 101C383U016AH2B        | 20.0                                  | 11.1                                   | 1 3/8 x 2 5/8                     |
| 1500000                       | 101C155U7R5DG2D        | 2.5                                   | 76.4                                   | 3 x 8 5/8                         | 45000                        | 101C453U016BA2B        | 19.1                                  | 13.7                                   | 2 x 2 1/8                         |
| <b>10 Vdc (15 Vdc Surge)</b>  |                        |                                       |  |                                   | 46000                        | 101C463U016EA2B        | 24.3                                  | 11.2                                   | 1 3/4 x 2 1/8                     |
| 25000                         | 101C253U010AK2B        | 36.0                                  | 6.2                                    | 1 3/8 x 1 5/8                     | 49000                        | 101C493U016AB2B        | 15.9                                  | 13.6                                   | 1 3/8 x 3 1/8                     |
| 41000                         | 101C413U010AA2B        | 23.9                                  | 8.9                                    | 1 3/8 x 2 1/8                     | 59000                        | 101C593U016AJ2B        | 13.5                                  | 15.7                                   | 1 3/8 x 3 5/8                     |
| 58000                         | 101C583U010AH2B        | 18.1                                  | 11.7                                   | 1 3/8 x 2 5/8                     | 66000                        | 101C663U016EH2B        | 17.7                                  | 14.2                                   | 1 3/4 x 2 5/8                     |
| 68000                         | 101C683U010BA2B        | 17.8                                  | 14.2                                   | 2 x 2 1/8                         | 71000                        | 101C713U016BH2B        | 13.0                                  | 18.0                                   | 2 x 2 5/8                         |
| 69000                         | 101C693U010EA2B        | 22.8                                  | 11.6                                   | 1 3/4 x 2 1/8                     | 73000                        | 101C733U016AC2B        | 12.2                                  | 17.4                                   | 1 3/8 x 4 1/8                     |
|                               |                        |                                       |  |                                   | 82000                        | 101C823U016AD2B        | 11.1                                  | 19.0                                   | 1 3/8 x 4 5/8                     |

# Type 101C $-55^{\circ}\text{C}$ to $105^{\circ}\text{C}$ Low-ESR, Wide-Temperature Grade

| Cap.<br>( $\mu\text{F}$ )    | Catalog<br>Part Number | ESR Max.<br>@ 25 $^{\circ}\text{C}$<br>120 Hz<br>(m $\Omega$ ) | Ripple Max.<br>@ 85 $^{\circ}\text{C}$<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|------------------------------|------------------------|--|---|-----------------------------------|
| 86000                        | 101C863U016EB2B        | 14.1   | 16.9  | 1 3/4 x 3 1/8                     |
| 93000                        | 101C933U016AE2B        | 10.1   | 20.6  | 1 3/8 x 5 1/8                     |
| 100000                       | 101C104U016BB2B        | 8.6  | 23.4  | 2 x 3 1/8                         |
| 110000                       | 101C114U016EJ2B        | 11.8   | 19.4  | 1 3/4 x 3 5/8                     |
| 110000                       | 101C114U016AF2B        | 9.3  | 22.3  | 1 3/8 x 5 5/8                     |
| 120000                       | 101C124U016CH2B        | 9.8  | 23.7  | 2 1/2 x 2 5/8                     |
| 120000                       | 101C124U016BJ2B        | 8.0  | 25.7  | 2 x 3 5/8                         |
| 130000                       | 101C134U016EC2B        | 8.6  | 23.8  | 1 3/4 x 4 1/8                     |
| 150000                       | 101C154U016ED2B        | 9.2  | 24.0  | 1 3/4 x 4 5/8                     |
| 160000                       | 101C164U016CB2B        | 7.5  | 28.9  | 2 1/2 x 3 1/8                     |
| 160000                       | 101C164U016BC2B        | 6.0  | 30.9  | 2 x 4 1/8                         |
| 170000                       | 101C174U016EE2B        | 8.4  | 26.0  | 1 3/4 x 5 1/8                     |
| 170000                       | 101C174U016BD2B        | 5.9  | 32.5  | 2 x 4 5/8                         |
| 190000                       | 101C194U016EF2B        | 7.8  | 28.0  | 1 3/4 x 5 5/8                     |
| 200000                       | 101C204U016CJ2D        | 6.1  | 33.6  | 2 1/2 x 3 5/8                     |
| 200000                       | 101C204U016BE2B        | 5.3  | 35.4  | 2 x 5 1/8                         |
| 230000                       | 101C234U016BF2B        | 4.9  | 38.0  | 2 x 5 5/8                         |
| 240000                       | 101C244U016DB2D        | 7.3  | 32.7  | 3 x 3 1/8                         |
| 250000                       | 101C254U016CC2D        | 4.3  | 41.9  | 2 1/2 x 4 1/8                     |
| 290000                       | 101C294U016CD2D        | 4.5  | 42.3  | 2 1/2 x 4 5/8                     |
| 300000                       | 101C304U016DJ2D        | 5.9  | 38.1  | 3 x 3 5/8                         |
| 330000                       | 101C334U016CE2D        | 4.0  | 46.2  | 2 1/2 x 5 1/8                     |
| 360000                       | 101C364U016DC2D        | 4.7  | 44.6  | 3 x 4 1/8                         |
| 370000                       | 101C374U016CF2D        | 3.4  | 51.6  | 2 1/2 x 5 5/8                     |
| 430000                       | 101C434U016DD2D        | 4.1  | 49.5  | 3 x 4 5/8                         |
| 490000                       | 101C494U016DE2D        | 3.8  | 53.0  | 3 x 5 1/8                         |
| 560000                       | 101C564U016DF2D        | 3.5  | 57.2  | 3 x 5 5/8                         |
| 590000                       | 101C594U016DP2D        | 3.4  | 58.2  | 3 x 5 7/8                         |
| 800000                       | 101C804U016DN2D        | 2.9  | 69.6  | 3 x 7 5/8                         |
| 920000                       | 101C924U016DG2D        | 2.6  | 75.8  | 3 x 8 5/8                         |
| <b>20 Vdc (30 Vdc Surge)</b> |                        |  |   |                                   |
| 13000                        | 101C133U020AK2B        | 39.2   | 6.0   | 1 3/8 x 1 5/8                     |
| 21000                        | 101C213U020AA2B        | 26.0   | 8.5   | 1 3/8 x 2 1/8                     |
| 29000                        | 101C293U020AH2B        | 20.0   | 11.1  | 1 3/8 x 2 5/8                     |
| 34000                        | 101C343U020BA2B        | 19.1   | 13.7  | 2 x 2 1/8                         |
| 35000                        | 101C353U020EA2B        | 24.3   | 11.2  | 1 3/4 x 2 1/8                     |
| 38000                        | 101C383U020AB2B        | 15.9   | 13.6  | 1 3/8 x 3 1/8                     |
| 45000                        | 101C453U020AJ2B        | 13.5   | 15.7  | 1 3/8 x 3 5/8                     |
| 50000                        | 101C503U020EH2B        | 17.7   | 14.2  | 1 3/4 x 2 5/8                     |
| 54000                        | 101C543U020BH2B        | 13.0   | 18.0  | 2 x 2 5/8                         |
| 55000                        | 101C553U020AC2B        | 12.2   | 17.4  | 1 3/8 x 4 1/8                     |
| 62000                        | 101C623U020AD2B        | 11.1   | 19.0  | 1 3/8 x 4 5/8                     |
| 66000                        | 101C663U020EB2B        | 14.1   | 16.9  | 1 3/4 x 3 1/8                     |
| 71000                        | 101C713U020AE2B        | 10.1   | 20.6  | 1 3/8 x 5 1/8                     |
| 77000                        | 101C773U020BB2B        | 8.6  | 23.4  | 2 x 3 1/8                         |
| 80000                        | 101C803U020AF2B        | 9.3  | 22.3  | 1 3/8 x 5 5/8                     |
| 81000                        | 101C813U020EJ2B        | 11.8   | 19.4  | 1 3/4 x 3 5/8                     |
| 89000                        | 101C893U020CH2B        | 9.8  | 23.7  | 2 1/2 x 2 5/8                     |

| Cap.<br>( $\mu\text{F}$ )    | Catalog<br>Part Number | ESR Max.<br>@ 25 $^{\circ}\text{C}$<br>120 Hz<br>(m $\Omega$ ) | Ripple Max.<br>@ 85 $^{\circ}\text{C}$<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|------------------------------|------------------------|--|---|-----------------------------------|
| 94000                        | 101C943U020BJ2B        | 8.0  | 25.7  | 2 x 3 5/8                         |
| 98000                        | 101C983U020EC2B        | 8.6  | 23.8  | 1 3/4 x 4 1/8                     |
| 110000                       | 101C114U020ED2B        | 9.2  | 24.0  | 1 3/4 x 4 5/8                     |
| 120000                       | 101C124U020CB2B        | 7.5  | 28.9  | 2 1/2 x 3 1/8                     |
| 120000                       | 101C124U020BC2B        | 6.0  | 30.9  | 2 x 4 1/8                         |
| 130000                       | 101C134U020EE2B        | 8.4  | 26.0  | 1 3/4 x 5 1/8                     |
| 130000                       | 101C134U020BD2B        | 5.9  | 32.5  | 2 x 4 5/8                         |
| 140000                       | 101C144U020EF2B        | 7.8  | 28.0  | 1 3/4 x 5 5/8                     |
| 150000                       | 101C154U020CJ2D        | 6.1  | 33.6  | 2 1/2 x 3 5/8                     |
| 150000                       | 101C154U020BE2B        | 5.3  | 35.4  | 2 x 5 1/8                         |
| 180000                       | 101C184U020DB2D        | 7.3  | 32.7  | 3 x 3 1/8                         |
| 180000                       | 101C184U020BF2B        | 4.9  | 38.0  | 2 x 5 5/8                         |
| 190000                       | 101C194U020CC2D        | 4.3  | 41.9  | 2 1/2 x 4 1/8                     |
| 220000                       | 101C224U020CD2D        | 4.5  | 42.3  | 2 1/2 x 4 5/8                     |
| 230000                       | 101C234U020DJ2D        | 5.9  | 38.1  | 3 x 3 5/8                         |
| 250000                       | 101C254U020CE2D        | 4.0  | 46.2  | 2 1/2 x 5 1/8                     |
| 280000                       | 101C284U020DC2D        | 4.7  | 44.6  | 3 x 4 1/8                         |
| 280000                       | 101C284U020CF2D        | 3.4  | 51.6  | 2 1/2 x 5 5/8                     |
| 330000                       | 101C334U020DD2D        | 4.1  | 49.5  | 3 x 4 5/8                         |
| 380000                       | 101C384U020DE2D        | 3.8  | 53.0  | 3 x 5 1/8                         |
| 420000                       | 101C424U020DF2D        | 3.5  | 57.2  | 3 x 5 5/8                         |
| 450000                       | 101C454U020DP2D        | 3.4  | 58.2  | 3 x 5 7/8                         |
| 610000                       | 101C614U020DN2D        | 2.9  | 69.4  | 3 x 7 5/8                         |
| 710000                       | 101C714U020DG2D        | 2.6  | 75.5  | 3 x 8 5/8                         |
| <b>25 Vdc (40 Vdc Surge)</b> |                        |  |   |                                   |
| 9900                         | 101C992U025AK2B        | 42.6   | 5.7   | 1 3/8 x 1 5/8                     |
| 16000                        | 101C163U025AA2B        | 28.2   | 8.2   | 1 3/8 x 2 1/8                     |
| 23000                        | 101C233U025AH2B        | 20.9   | 10.8  | 1 3/8 x 2 5/8                     |
| 27000                        | 101C273U025EA2B        | 25.1   | 11.0  | 1 3/4 x 2 1/8                     |
| 27000                        | 101C273U025BA2B        | 19.9   | 13.5  | 2 x 2 1/8                         |
| 30000                        | 101C303U025AB2B        | 16.6   | 13.3  | 1 3/8 x 3 1/8                     |
| 35000                        | 101C353U025AJ2B        | 14.2   | 15.4  | 1 3/8 x 3 5/8                     |
| 39000                        | 101C393U025EH2B        | 18.3   | 13.9  | 1 3/4 x 2 5/8                     |
| 42000                        | 101C423U025BH2B        | 13.5   | 17.6  | 2 x 2 5/8                         |
| 43000                        | 101C433U025AC2B        | 12.7   | 17.0  | 1 3/8 x 4 1/8                     |
| 49000                        | 101C493U025AD2B        | 11.6   | 18.6  | 1 3/8 x 4 5/8                     |
| 52000                        | 101C523U025EB2B        | 14.5   | 16.6  | 1 3/4 x 3 1/8                     |
| 56000                        | 101C563U025AE2B        | 10.6   | 20.2  | 1 3/8 x 5 1/8                     |
| 60000                        | 101C603U025BB2B        | 9.0  | 22.9  | 2 x 3 1/8                         |
| 63000                        | 101C633U025AF2B        | 9.7  | 21.9  | 1 3/8 x 5 5/8                     |
| 64000                        | 101C643U025EJ2B        | 12.2   | 19.1  | 1 3/4 x 3 5/8                     |
| 70000                        | 101C703U025CH2B        | 10.1   | 23.3  | 2 1/2 x 2 5/8                     |
| 73000                        | 101C733U025BJ2B        | 8.3  | 25.2  | 2 x 3 5/8                         |
| 77000                        | 101C773U025EC2B        | 9.9  | 22.2  | 1 3/4 x 4 1/8                     |
| 88000                        | 101C883U025ED2B        | 9.5  | 23.6  | 1 3/4 x 4 5/8                     |
| 90000                        | 101C903U025BC2B        | 6.4  | 30.0  | 2 x 4 1/8                         |
| 95000                        | 101C953U025CB2B        | 7.7  | 28.4  | 2 1/2 x 3 1/8                     |
| 100000                       | 101C104U025EE2B        | 8.6  | 25.7  | 1 3/4 x 5 1/8                     |

# Type 101C $-55^{\circ}\text{C}$ to $105^{\circ}\text{C}$ Low-ESR, Wide-Temperature Grade

| Cap.<br>( $\mu\text{F}$ )    | Catalog<br>Part Number | ESR Max.<br>@ $25^{\circ}\text{C}$<br>120 Hz<br>( $\text{m}\Omega$ ) | Ripple Max.<br>@ $85^{\circ}\text{C}$<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|------------------------------|------------------------|--|--|-----------------------------------|
| 100000                       | 101C104U025BD2B        | 6.1  | 31.9   | 2 x 4 5/8                         |
| 110000                       | 101C114U025EF2B        | 8.0  | 27.6   | 1 3/4 x 5 5/8                     |
| 120000                       | 101C124U025CJ2D        | 6.3  | 33.1   | 2 1/2 x 3 5/8                     |
| 120000                       | 101C124U025BE2B        | 5.5  | 34.8   | 2 x 5 1/8                         |
| 140000                       | 101C144U025DB2D        | 7.4  | 32.4   | 3 x 3 1/8                         |
| 140000                       | 101C144U025BF2B        | 5.1  | 37.4   | 2 x 5 5/8                         |
| 150000                       | 101C154U025CC2D        | 4.5  | 40.6   | 2 1/2 x 4 1/8                     |
| 170000                       | 101C174U025CD2D        | 4.7  | 41.6   | 2 1/2 x 4 5/8                     |
| 180000                       | 101C184U025DJ2D        | 6.0  | 37.7   | 3 x 3 5/8                         |
| 200000                       | 101C204U025CE2D        | 4.2  | 45.5   | 2 1/2 x 5 1/8                     |
| 220000                       | 101C224U025DC2D        | 4.8  | 44.1   | 3 x 4 1/8                         |
| 220000                       | 101C224U025CF2D        | 3.6  | 50.3   | 2 1/2 x 5 5/8                     |
| 260000                       | 101C264U025DD2D        | 4.5  | 47.3   | 3 x 4 5/8                         |
| 290000                       | 101C294U025DE2D        | 4.0  | 51.6   | 3 x 5 1/8                         |
| 330000                       | 101C334U025DF2D        | 3.5  | 56.7   | 3 x 5 5/8                         |
| 350000                       | 101C354U025DP2D        | 3.5  | 57.7   | 3 x 5 7/8                         |
| 480000                       | 101C484U025DN2D        | 2.9  | 69.0   | 3 x 7 5/8                         |
| 550000                       | 101C554U025DG2D        | 2.6  | 75.2   | 3 x 8 5/8                         |
| <b>30 Vdc (45 Vdc Surge)</b> |                        |  |  |                                   |
| 5400                         | 101C542U030AK2B        | 43.9   | 5.6  | 1 3/8 x 1 5/8                     |
| 13000                        | 101C133U030AA2B        | 29.8   | 8.0  | 1 3/8 x 2 1/8                     |
| 19000                        | 101C193U030AH2B        | 21.4   | 10.7   | 1 3/8 x 2 5/8                     |
| 23000                        | 101C233U030EA2B        | 23.1   | 11.5   | 1 3/4 x 2 1/8                     |
| 23000                        | 101C233U030BA2B        | 18.8   | 13.8   | 2 x 2 1/8                         |
| 24000                        | 101C243U030AB2B        | 16.0   | 13.6   | 1 3/8 x 3 1/8                     |
| 30000                        | 101C303U030AJ2B        | 14.1   | 15.4   | 1 3/8 x 3 5/8                     |
| 33000                        | 101C333U030EH2B        | 16.9   | 14.5   | 1 3/4 x 2 5/8                     |
| 36000                        | 101C363U030AC2B        | 13.0   | 16.8   | 1 3/8 x 4 1/8                     |
| 36000                        | 101C363U030BH2B        | 12.8   | 18.1   | 2 x 2 5/8                         |
| 41000                        | 101C413U030AD2B        | 11.6   | 18.6   | 1 3/8 x 4 5/8                     |
| 44000                        | 101C443U030EB2B        | 13.4   | 17.3   | 1 3/4 x 3 1/8                     |
| 47000                        | 101C473U030AE2B        | 10.6   | 20.2   | 1 3/8 x 5 1/8                     |
| 49000                        | 101C493U030BB2B        | 8.7  | 23.3   | 2 x 3 1/8                         |
| 53000                        | 101C533U030AF2B        | 9.8  | 21.8   | 1 3/8 x 5 5/8                     |
| 54000                        | 101C543U030EJ2B        | 11.3   | 19.9   | 1 3/4 x 3 5/8                     |
| 59000                        | 101C593U030CH2B        | 9.3  | 24.4   | 2 1/2 x 2 5/8                     |
| 62000                        | 101C623U030BJ2B        | 7.8  | 25.8   | 2 x 3 5/8                         |
| 64000                        | 101C643U030EC2B        | 9.2  | 23.0   | 1 3/4 x 4 1/8                     |
| 75000                        | 101C753U030ED2B        | 8.4  | 25.1   | 1 3/4 x 4 5/8                     |
| 75000                        | 101C753U030BC2B        | 6.3  | 30.1   | 2 x 4 1/8                         |
| 81000                        | 101C813U030CB2B        | 7.1  | 29.7   | 2 1/2 x 3 1/8                     |
| 85000                        | 101C853U030EE2B        | 7.9  | 26.9   | 1 3/4 x 5 1/8                     |
| 88000                        | 101C883U030BD2B        | 5.8  | 32.7   | 2 x 4 5/8                         |
| 95000                        | 101C953U030EF2B        | 7.5  | 28.5   | 1 3/4 x 5 5/8                     |
| 100000                       | 101C104U030CJ2D        | 5.7  | 34.6   | 2 1/2 x 3 5/8                     |
| 100000                       | 101C104U030BE2B        | 5.2  | 35.6   | 2 x 5 1/8                         |
| 110000                       | 101C114U030BF2B        | 4.8  | 38.4   | 2 x 5 5/8                         |
| 120000                       | 101C124U030DB2D        | 7.0  | 33.3   | 3 x 3 1/8                         |

| Cap.<br>( $\mu\text{F}$ )    | Catalog<br>Part Number | ESR Max.<br>@ $25^{\circ}\text{C}$<br>120 Hz<br>( $\text{m}\Omega$ ) | Ripple Max.<br>@ $85^{\circ}\text{C}$<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|------------------------------|------------------------|--|--|-----------------------------------|
| 120000                       | 101C124U030CC2D        | 4.7  | 40.0   | 2 1/2 x 4 1/8                     |
| 150000                       | 101C154U030DJ2D        | 5.7  | 38.7   | 3 x 3 5/8                         |
| 150000                       | 101C154U030CD2D        | 4.3  | 43.4   | 2 1/2 x 4 5/8                     |
| 170000                       | 101C174U030CE2D        | 3.8  | 47.4   | 2 1/2 x 5 1/8                     |
| 180000                       | 101C184U030DC2D        | 4.8  | 43.9   | 3 x 4 1/8                         |
| 190000                       | 101C194U030CF2D        | 3.5  | 51.2   | 2 1/2 x 5 5/8                     |
| 220000                       | 101C224U030DD2D        | 4.3  | 48.5   | 3 x 4 5/8                         |
| 250000                       | 101C254U030DE2D        | 3.8  | 52.8   | 3 x 5 1/8                         |
| 280000                       | 101C284U030DF2D        | 3.5  | 56.9   | 3 x 5 5/8                         |
| 300000                       | 101C304U030DP2D        | 3.4  | 58.8   | 3 x 5 7/8                         |
| 410000                       | 101C414U030DN2D        | 2.9  | 69.5   | 3 x 7 5/8                         |
| 470000                       | 101C474U030DG2D        | 2.6  | 75.8   | 3 x 8 5/8                         |
| <b>40 Vdc (55 Vdc Surge)</b> |                        |  |  |                                   |
| 5400                         | 101C542U040AK2B        | 47.6   | 5.4  | 1 3/8 x 1 5/8                     |
| 9000                         | 101C902U040AA2B        | 32.3   | 7.6  | 1 3/8 x 2 1/8                     |
| 13000                        | 101C133U040AH2B        | 23.1   | 10.3   | 1 3/8 x 2 5/8                     |
| 16000                        | 101C163U040EA2B        | 26.6   | 10.7   | 1 3/4 x 2 1/8                     |
| 16000                        | 101C163U040BA2B        | 21.2   | 13.0   | 2 x 2 1/8                         |
| 17000                        | 101C173U040AB2B        | 17.3   | 13.1   | 1 3/8 x 3 1/8                     |
| 21000                        | 101C213U040AJ2B        | 15.2   | 14.8   | 1 3/8 x 3 5/8                     |
| 23000                        | 101C233U040EH2B        | 19.3   | 13.5   | 1 3/4 x 2 5/8                     |
| 25000                        | 101C253U040BH2B        | 14.3   | 17.1   | 2 x 2 5/8                         |
| 25000                        | 101C253U040AC2B        | 14.0   | 16.2   | 1 3/8 x 4 1/8                     |
| 29000                        | 101C293U040AD2B        | 12.4   | 17.9   | 1 3/8 x 4 5/8                     |
| 30000                        | 101C303U040EB2B        | 15.4   | 16.2   | 1 3/4 x 3 1/8                     |
| 33000                        | 101C333U040AE2B        | 11.3   | 19.6   | 1 3/8 x 5 1/8                     |
| 34000                        | 101C343U040BB2B        | 9.8  | 22.0   | 2 x 3 1/8                         |
| 37000                        | 101C373U040EJ2B        | 12.9   | 18.6   | 1 3/4 x 3 5/8                     |
| 37000                        | 101C373U040AF2B        | 10.4   | 21.1   | 1 3/8 x 5 5/8                     |
| 41000                        | 101C413U040CH2B        | 10.7   | 22.7   | 2 1/2 x 2 5/8                     |
| 43000                        | 101C433U040BJ2B        | 8.8  | 24.4   | 2 x 3 5/8                         |
| 45000                        | 101C453U040EC2B        | 10.5   | 21.6   | 1 3/4 x 4 1/8                     |
| 52000                        | 101C523U040ED2B        | 9.5  | 23.6   | 1 3/4 x 4 5/8                     |
| 52000                        | 101C523U040BC2B        | 7.1  | 28.5   | 2 x 4 1/8                         |
| 56000                        | 101C563U040CB2B        | 8.1  | 27.6   | 2 1/2 x 3 1/8                     |
| 59000                        | 101C593U040EE2B        | 8.9  | 25.4   | 1 3/4 x 5 1/8                     |
| 61000                        | 101C613U040BD2B        | 6.5  | 31.0   | 2 x 4 5/8                         |
| 66000                        | 101C663U040EF2B        | 8.4  | 26.9   | 1 3/4 x 5 5/8                     |
| 70000                        | 101C703U040BE2B        | 5.8  | 33.8   | 2 x 5 1/8                         |
| 71000                        | 101C713U040CJ2D        | 6.6  | 32.2   | 2 1/2 x 3 5/8                     |
| 79000                        | 101C793U040BF2B        | 5.3  | 36.5   | 2 x 5 5/8                         |
| 83000                        | 101C833U040DB2D        | 8.6  | 30.1   | 3 x 3 1/8                         |
| 86000                        | 101C863U040CC2D        | 5.4  | 37.3   | 2 1/2 x 4 1/8                     |
| 100000                       | 101C104U040CD2D        | 4.9  | 40.6   | 2 1/2 x 4 5/8                     |
| 110000                       | 101C114U040DJ2D        | 7.0  | 35.1   | 3 x 3 5/8                         |
| 120000                       | 101C124U040CE2D        | 4.4  | 44.4   | 2 1/2 x 5 1/8                     |
| 130000                       | 101C134U040DC2D        | 5.3  | 41.9   | 3 x 4 1/8                         |
| 130000                       | 101C134U040CF2D        | 4.0  | 48.0   | 2 1/2 x 5 5/8                     |

# Type 101C $-55^{\circ}\text{C}$ to $105^{\circ}\text{C}$ Low-ESR, Wide-Temperature Grade

| Cap.<br>( $\mu\text{F}$ )    | Catalog<br>Part Number | ESR Max.<br>@ 25 $^{\circ}\text{C}$<br>120 Hz<br>(m $\Omega$ ) | Ripple Max.<br>@ 85 $^{\circ}\text{C}$<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|------------------------------|------------------------|--|---|-----------------------------------|
| 150000                       | 101C154U040DD2D        | 5.2  | 44.0  | 3 x 4 5/8                         |
| 170000                       | 101C174U040DE2D        | 4.6  | 48.1  | 3 x 5 1/8                         |
| 190000                       | 101C194U040DF2D        | 4.2  | 51.9  | 3 x 5 5/8                         |
| 210000                       | 101C214U040DP2D        | 4.0  | 53.8  | 3 x 5 7/8                         |
| 280000                       | 101C284U040DN2D        | 3.4  | 63.9  | 3 x 7 5/8                         |
| 330000                       | 101C334U040DG2D        | 3.0  | 69.9  | 3 x 8 5/8                         |
| <b>50 Vdc (75 Vdc Surge)</b> |                        |  |   |                                   |
| 3800                         | 101C382U050AK2B        | 48.4   | 5.4   | 1 3/8 x 1 5/8                     |
| 7000                         | 101C702U050AA2B        | 30.8   | 7.8   | 1 3/8 x 2 1/8                     |
| 10000                        | 101C103U050AH2B        | 22.0   | 10.5  | 1 3/8 x 2 5/8                     |
| 12000                        | 101C123U050EA2B        | 26.5   | 10.7  | 1 3/4 x 2 1/8                     |
| 12000                        | 101C123U050BA2B        | 20.8   | 13.2  | 2 x 2 1/8                         |
| 13000                        | 101C133U050AB2B        | 17.5   | 13.0  | 1 3/8 x 3 1/8                     |
| 16000                        | 101C163U050AJ2B        | 14.6   | 15.2  | 1 3/8 x 3 5/8                     |
| 18000                        | 101C183U050EH2B        | 19.3   | 13.6  | 1 3/4 x 2 5/8                     |
| 19000                        | 101C193U050BH2B        | 14.1   | 17.2  | 2 x 2 5/8                         |
| 19000                        | 101C193U050AC2B        | 13.4   | 16.6  | 1 3/8 x 4 1/8                     |
| 22000                        | 101C223U050AD2B        | 11.9   | 18.3  | 1 3/8 x 4 5/8                     |
| 24000                        | 101C243U050EB2B        | 15.3   | 16.2  | 1 3/4 x 3 1/8                     |
| 25000                        | 101C253U050AE2B        | 10.8   | 20.0  | 1 3/8 x 5 1/8                     |
| 27000                        | 101C273U050BB2B        | 9.6  | 22.2  | 2 x 3 1/8                         |
| 29000                        | 101C293U050EJ2B        | 12.8   | 18.6  | 1 3/4 x 3 5/8                     |
| 29000                        | 101C293U050AF2B        | 10.0   | 21.5  | 1 3/8 x 5 5/8                     |
| 32000                        | 101C323U050CH2B        | 9.6  | 24.0  | 2 1/2 x 2 5/8                     |
| 34000                        | 101C343U050BJ2B        | 8.6  | 24.6  | 2 x 3 5/8                         |
| 35000                        | 101C353U050EC2B        | 10.5   | 21.6  | 1 3/4 x 4 1/8                     |
| 40000                        | 101C403U050ED2B        | 9.5  | 23.6  | 1 3/4 x 4 5/8                     |
| 41000                        | 101C413U050BC2B        | 7.2  | 28.2  | 2 x 4 1/8                         |
| 44000                        | 101C443U050CB2B        | 8.2  | 27.6  | 2 1/2 x 3 1/8                     |
| 46000                        | 101C463U050EE2B        | 8.8  | 25.4  | 1 3/4 x 5 1/8                     |
| 48000                        | 101C483U050BD2B        | 6.3  | 31.2  | 2 x 4 5/8                         |
| 52000                        | 101C523U050EF2B        | 8.4  | 27.0  | 1 3/4 x 5 5/8                     |
| 55000                        | 101C553U050CJ2D        | 6.6  | 32.2  | 2 1/2 x 3 5/8                     |
| 55000                        | 101C553U050BE2B        | 5.7  | 34.1  | 2 x 5 1/8                         |
| 62000                        | 101C623U050BF2B        | 5.2  | 36.8  | 2 x 5 5/8                         |
| 65000                        | 101C653U050DB2B        | 8.9  | 29.5  | 3 x 3 1/8                         |
| 67000                        | 101C673U050CC2D        | 5.4  | 37.3  | 2 1/2 x 4 1/8                     |
| 79000                        | 101C793U050CD2D        | 4.9  | 40.5  | 2 1/2 x 4 5/8                     |
| 83000                        | 101C833U050DJ2D        | 7.3  | 34.4  | 3 x 3 5/8                         |
| 90000                        | 101C903U050CE2D        | 4.4  | 44.3  | 2 1/2 x 5 1/8                     |
| 100000                       | 101C104U050DC2D        | 5.5  | 41.1  | 3 x 4 1/8                         |
| 100000                       | 101C104U050CF2D        | 4.0  | 47.9  | 2 1/2 x 5 5/8                     |
| 120000                       | 101C124U050DD2D        | 5.4  | 43.2  | 3 x 4 5/8                         |
| 130000                       | 101C134U050DE2D        | 4.8  | 47.2  | 3 x 5 1/8                         |
| 150000                       | 101C154U050DF2D        | 4.4  | 51.0  | 3 x 5 5/8                         |
| 160000                       | 101C164U050DP2D        | 4.2  | 52.9  | 3 x 5 7/8                         |
| 220000                       | 101C224U050DN2D        | 3.5  | 63.0  | 3 x 7 5/8                         |
| 260000                       | 101C264U050DG2D        | 3.1  | 69.0  | 3 x 8 5/8                         |

| Cap.<br>( $\mu\text{F}$ )     | Catalog<br>Part Number | ESR Max.<br>@ 25 $^{\circ}\text{C}$<br>120 Hz<br>(m $\Omega$ ) | Ripple Max.<br>@ 85 $^{\circ}\text{C}$<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|-------------------------------|------------------------|--|---|-----------------------------------|
| <b>63 Vdc (85 Vdc Surge)</b>  |                        |  |   |                                   |
| 2800                          | 101C282U063AK2B        | 57.9   | 4.9   | 1 3/8 x 1 5/8                     |
| 5000                          | 101C502U063AA2B        | 35.5   | 7.3   | 1 3/8 x 2 1/8                     |
| 7200                          | 101C722U063AH2B        | 25.8   | 9.8   | 1 3/8 x 2 5/8                     |
| 8800                          | 101C882U063BA2B        | 22.8   | 12.6  | 2 x 2 1/8                         |
| 8900                          | 101C892U063EA2B        | 28.0   | 10.4  | 1 3/4 x 2 1/8                     |
| 9400                          | 101C942U063AB2B        | 20.4   | 12.0  | 1 3/8 x 3 1/8                     |
| 12000                         | 101C123U063AJ2B        | 17.1   | 14.0  | 1 3/8 x 3 5/8                     |
| 13000                         | 101C133U063EH2B        | 20.4   | 13.2  | 1 3/4 x 2 5/8                     |
| 14000                         | 101C143U063BH2B        | 15.4   | 16.5  | 2 x 2 5/8                         |
| 14000                         | 101C143U063AC2B        | 14.8   | 15.8  | 1 3/8 x 4 1/8                     |
| 16000                         | 101C163U063AD2B        | 13.2   | 17.4  | 1 3/8 x 4 5/8                     |
| 17000                         | 101C173U063EB2B        | 16.1   | 15.8  | 1 3/4 x 3 1/8                     |
| 18000                         | 101C183U063AE2B        | 12.0   | 19.0  | 1 3/8 x 5 1/8                     |
| 19000                         | 101C193U063BB2B        | 10.2   | 21.5  | 2 x 3 1/8                         |
| 20000                         | 101C203U063AF2B        | 11.0   | 20.5  | 1 3/8 x 5 5/8                     |
| 21000                         | 101C213U063EJ2B        | 13.5   | 18.2  | 1 3/4 x 3 5/8                     |
| 23000                         | 101C233U063CH2B        | 11.3   | 22.1  | 2 1/2 x 2 5/8                     |
| 24000                         | 101C243U063BJ2B        | 9.6  | 23.4  | 2 x 3 5/8                         |
| 25000                         | 101C253U063EC2B        | 11.0   | 21.1  | 1 3/4 x 4 1/8                     |
| 29000                         | 101C293U063ED2B        | 10.0   | 23.0  | 1 3/4 x 4 5/8                     |
| 29000                         | 101C293U063BC2B        | 8.2  | 26.4  | 2 x 4 1/8                         |
| 31000                         | 101C313U063CB2B        | 8.6  | 26.9  | 2 1/2 x 3 1/8                     |
| 33000                         | 101C333U063EE2B        | 9.3  | 24.8  | 1 3/4 x 5 1/8                     |
| 34000                         | 101C343U063BD2B        | 7.2  | 29.3  | 2 x 4 5/8                         |
| 37000                         | 101C373U063EF2B        | 8.8  | 26.3  | 1 3/4 x 5 5/8                     |
| 39000                         | 101C393U063BE2B        | 6.5  | 32.0  | 2 x 5 1/8                         |
| 40000                         | 101C403U063CJ2D        | 7.0  | 31.4  | 2 1/2 x 3 5/8                     |
| 44000                         | 101C443U063BF2B        | 5.9  | 34.6  | 2 x 5 5/8                         |
| 47000                         | 101C473U063DB2B        | 9.3  | 29.0  | 3 x 3 1/8                         |
| 48000                         | 101C483U063CC2D        | 5.6  | 36.4  | 2 1/2 x 4 1/8                     |
| 56000                         | 101C563U063CD2D        | 5.2  | 39.5  | 2 1/2 x 4 5/8                     |
| 59000                         | 101C593U063DJ2D        | 7.5  | 33.8  | 3 x 3 5/8                         |
| 65000                         | 101C653U063CE2D        | 4.6  | 43.3  | 2 1/2 x 5 1/8                     |
| 72000                         | 101C723U063DC2D        | 6.0  | 39.5  | 3 x 4 1/8                         |
| 73000                         | 101C733U063CF2D        | 4.2  | 46.8  | 2 1/2 x 5 5/8                     |
| 84000                         | 101C843U063DD2D        | 5.6  | 42.5  | 3 x 4 5/8                         |
| 97000                         | 101C973U063DE2D        | 5.0  | 46.5  | 3 x 5 1/8                         |
| 110000                        | 101C114U063DF2D        | 4.5  | 50.2  | 3 x 5 5/8                         |
| 120000                        | 101C124U063DP2D        | 4.3  | 52.0  | 3 x 5 7/8                         |
| 160000                        | 101C164U063DN2D        | 3.6  | 62.2  | 3 x 7 5/8                         |
| 180000                        | 101C184U063DG2D        | 3.2  | 68.2  | 3 x 8 5/8                         |
| <b>75 Vdc (100 Vdc Surge)</b> |                        |  |   |                                   |
| 2100                          | 101C212U075AK2B        | 97.3   | 3.8   | 1 3/8 x 1 5/8                     |
| 3600                          | 101C362U075AA2B        | 67.2   | 5.3   | 1 3/8 x 2 1/8                     |
| 5200                          | 101C522U075AH2B        | 50.0   | 7.0   | 1 3/8 x 2 5/8                     |
| 6400                          | 101C642U075BA2B        | 40.7   | 9.4   | 2 x 2 1/8                         |
| 6500                          | 101C652U075EA2B        | 47.5   | 8.0   | 1 3/4 x 2 1/8                     |

# Type 101C -55 °C to 105 °C Low-ESR, Wide-Temperature Grade

| Cap.<br>(µF)                   | Catalog<br>Part Number | ESR Max.<br>@ 25 °C<br>120 Hz<br>(mΩ) | Ripple Max.<br>@ 85°C<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|--------------------------------|------------------------|---------------------------------------|--|-----------------------------------|
| <b>75 Vdc (100 Vdc Surge)</b>  |                        |                                       |  |                                   |
| 6800                           | 101C682U075AB2B        | 39.3                                  | 8.7                                    | 1 3/8 x 3 1/8                     |
| 8400                           | 101C842U075AJ2B        | 32.5                                  | 10.1                                   | 1 3/8 x 3 5/8                     |
| 9400                           | 101C942U075EH2B        | 34.2                                  | 10.2                                   | 1 3/4 x 2 5/8                     |
| 10000                          | 101C103U075AC2B        | 27.9                                  | 11.5                                   | 1 3/8 x 4 1/8                     |
| 10000                          | 101C103U075BH2B        | 27.4                                  | 12.4                                   | 2 x 2 5/8                         |
| 12000                          | 101C123U075EB2B        | 27.0                                  | 12.2                                   | 1 3/4 x 3 1/8                     |
| 12000                          | 101C123U075AD2B        | 24.5                                  | 12.8                                   | 1 3/8 x 4 5/8                     |
| 13000                          | 101C133U075AE2B        | 22.0                                  | 14.0                                   | 1 3/8 x 5 1/8                     |
| 14000                          | 101C143U075BB2B        | 18.0                                  | 16.2                                   | 2 x 3 1/8                         |
| 15000                          | 101C153U075EJ2B        | 22.4                                  | 14.1                                   | 1 3/4 x 3 5/8                     |
| 15000                          | 101C153U075AF2B        | 20.0                                  | 15.2                                   | 1 3/8 x 5 5/8                     |
| 17000                          | 101C173U075CH2B        | 18.9                                  | 17.1                                   | 2 1/2 x 2 5/8                     |
| 17000                          | 101C173U075BJ2B        | 16.8                                  | 17.7                                   | 2 x 3 5/8                         |
| 18000                          | 101C183U075EC2B        | 18.0                                  | 16.5                                   | 1 3/4 x 4 1/8                     |
| 21000                          | 101C213U075ED2B        | 16.2                                  | 18.1                                   | 1 3/4 x 4 5/8                     |
| 21000                          | 101C213U075BC2B        | 12.7                                  | 21.2                                   | 2 x 4 1/8                         |
| 23000                          | 101C233U075CB2B        | 14.3                                  | 20.8                                   | 2 1/2 x 3 1/8                     |
| 24000                          | 101C243U075EE2B        | 14.8                                  | 19.6                                   | 1 3/4 x 5 1/8                     |
| 25000                          | 101C253U075BD2B        | 12.3                                  | 22.4                                   | 2 x 4 5/8                         |
| 27000                          | 101C273U075EF2B        | 13.9                                  | 20.9                                   | 1 3/4 x 5 5/8                     |
| 28000                          | 101C283U075BE2B        | 11.0                                  | 24.6                                   | 2 x 5 1/8                         |
| 29000                          | 101C293U075CJ2B        | 11.5                                  | 24.4                                   | 2 1/2 x 3 5/8                     |
| 32000                          | 101C323U075BF2B        | 9.9                                   | 26.7                                   | 2 x 5 5/8                         |
| 34000                          | 101C343U075DB2B        | 13.3                                  | 24.2                                   | 3 x 3 1/8                         |
| 35000                          | 101C353U075CC2B        | 8.7                                   | 29.4                                   | 2 1/2 x 4 1/8                     |
| 41000                          | 101C413U075CD2D        | 8.4                                   | 30.9                                   | 2 1/2 x 4 5/8                     |
| 43000                          | 101C433U075DJ2B        | 10.8                                  | 28.2                                   | 3 x 3 5/8                         |
| 47000                          | 101C473U075CE2D        | 7.5                                   | 34.0                                   | 2 1/2 x 5 1/8                     |
| 52000                          | 101C523U075DC2D        | 7.6                                   | 35.0                                   | 3 x 4 1/8                         |
| 53000                          | 101C533U075CF2D        | 6.7                                   | 36.9                                   | 2 1/2 x 5 5/8                     |
| 61000                          | 101C613U075DD2D        | 7.9                                   | 35.7                                   | 3 x 4 5/8                         |
| 70000                          | 101C703U075DE2D        | 6.1                                   | 42.0                                   | 3 x 5 1/8                         |
| 79000                          | 101C793U075DF2D        | 6.0                                   | 43.5                                   | 3 x 5 5/8                         |
| 83000                          | 101C833U075DP2D        | 5.7                                   | 45.1                                   | 3 x 5 7/8                         |
| 110000                         | 101C114U075DN2D        | 4.7                                   | 54.7                                   | 3 x 7 5/8                         |
| 130000                         | 101C134U075DG2D        | 4.1                                   | 60.3                                   | 3 x 8 5/8                         |
| <b>100 Vdc (150 Vdc Surge)</b> |                        |                                       |  |                                   |
| 1300                           | 101C132U100AK2B        | 116.0                                 | 3.5                                    | 1 3/8 x 1 5/8                     |
| 2300                           | 101C232U100AA2B        | 79.9                                  | 4.9                                    | 1 3/8 x 2 1/8                     |
| 3400                           | 101C342U100AH2B        | 59.4                                  | 6.4                                    | 1 3/8 x 2 5/8                     |
| 4100                           | 101C412U100BA2B        | 47.6                                  | 8.7                                    | 2 x 2 1/8                         |
| 4200                           | 101C422U100EA2B        | 55.0                                  | 7.4                                    | 1 3/4 x 2 1/8                     |
| 4400                           | 101C442U100AB2B        | 46.6                                  | 8.0                                    | 1 3/8 x 3 1/8                     |
| 5400                           | 101C542U100AJ2B        | 38.5                                  | 9.3                                    | 1 3/8 x 3 5/8                     |
| 6100                           | 101C612U100EH2B        | 39.6                                  | 9.5                                    | 1 3/4 x 2 5/8                     |
| 6500                           | 101C652U100AC2B        | 32.9                                  | 10.6                                   | 1 3/8 x 4 1/8                     |
| 6500                           | 101C652U100BH2B        | 32.0                                  | 11.4                                   | 2 x 2 5/8                         |
| 7500                           | 101C752U100AD2B        | 28.9                                  | 11.8                                   | 1 3/8 x 4 5/8                     |
| 7900                           | 101C792U100EB2B        | 31.1                                  | 11.4                                   | 1 3/4 x 3 1/8                     |
| 8500                           | 101C852U100AE2B        | 25.8                                  | 12.9                                   | 1 3/8 x 5 1/8                     |

| Cap.<br>(µF)                   | Catalog<br>Part Number | ESR Max.<br>@ 25 °C<br>120 Hz<br>(mΩ) | Ripple Max.<br>@ 85°C<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|--------------------------------|------------------------|---------------------------------------|--|-----------------------------------|
| 8900                           | 101C892U100BB2B        | 21.0                                  | 15.0                                   | 2 x 3 1/8                         |
| 9600                           | 101C962U100AF2B        | 23.4                                  | 14.1                                   | 1 3/8 x 5 5/8                     |
| 9800                           | 101C982U100EJ2B        | 25.8                                  | 13.2                                   | 1 3/4 x 3 5/8                     |
| 11000                          | 101C113U100CH2B        | 20.7                                  | 16.3                                   | 2 1/2 x 2 5/8                     |
| 11000                          | 101C113U100BJ2B        | 19.5                                  | 16.4                                   | 2 x 3 5/8                         |
| 12000                          | 101C123U100EC2B        | 20.7                                  | 15.4                                   | 1 3/4 x 4 1/8                     |
| 14000                          | 101C143U100ED2B        | 18.6                                  | 16.9                                   | 1 3/4 x 4 5/8                     |
| 14000                          | 101C143U100BC2B        | 14.8                                  | 19.7                                   | 2 x 4 1/8                         |
| 15000                          | 101C153U100EE2B        | 17.0                                  | 18.3                                   | 1 3/4 x 5 1/8                     |
| 15000                          | 101C153U100CB2B        | 16.5                                  | 19.4                                   | 2 1/2 x 3 1/8                     |
| 16000                          | 101C163U100BD2B        | 14.3                                  | 20.8                                   | 2 x 4 5/8                         |
| 17000                          | 101C173U100EF2B        | 15.9                                  | 19.6                                   | 1 3/4 x 5 5/8                     |
| 18000                          | 101C183U100BE2B        | 12.7                                  | 22.9                                   | 2 x 5 1/8                         |
| 19000                          | 101C193U100CJ2B        | 13.3                                  | 22.7                                   | 2 1/2 x 3 5/8                     |
| 21000                          | 101C213U100BF2B        | 11.4                                  | 24.9                                   | 2 x 5 5/8                         |
| 22000                          | 101C223U100DB2B        | 13.8                                  | 23.8                                   | 3 x 3 1/8                         |
| 22000                          | 101C223U100CC2B        | 10.0                                  | 27.4                                   | 2 1/2 x 4 1/8                     |
| 26000                          | 101C263U100CD2B        | 9.7                                   | 28.9                                   | 2 1/2 x 4 5/8                     |
| 28000                          | 101C283U100DJ2B        | 11.2                                  | 27.7                                   | 3 x 3 5/8                         |
| 30000                          | 101C303U100CE2D        | 8.6                                   | 31.7                                   | 2 1/2 x 5 1/8                     |
| 34000                          | 101C343U100DC2D        | 8.5                                   | 33.2                                   | 3 x 4 1/8                         |
| 34000                          | 101C343U100CF2D        | 7.7                                   | 34.5                                   | 2 1/2 x 5 5/8                     |
| 39000                          | 101C393U100DD2D        | 7.9                                   | 35.7                                   | 3 x 4 5/8                         |
| 45000                          | 101C453U100DE2D        | 6.5                                   | 40.5                                   | 3 x 5 1/8                         |
| 51000                          | 101C513U100DF2D        | 6.0                                   | 43.5                                   | 3 x 5 5/8                         |
| 54000                          | 101C543U100DP2D        | 6.0                                   | 44.1                                   | 3 x 5 7/8                         |
| 74000                          | 101C743U100DN2D        | 4.8                                   | 54.0                                   | 3 x 7 5/8                         |
| 85000                          | 101C853U100DG2D        | 4.2                                   | 59.2                                   | 3 x 8 5/8                         |
| <b>150 Vdc (200 Vdc Surge)</b> |                        |                                       |  |                                   |
| 490                            | 101C491U150AK2B        | 433.0                                 | 2.1                                    | 1 3/8 x 1 5/8                     |
| 880                            | 101C881U150AA2B        | 241.0                                 | 3.1                                    | 1 3/8 x 2 1/8                     |
| 1200                           | 101C122U150EA2B        | 199.0                                 | 3.9                                    | 1 3/4 x 2 1/8                     |
| 1300                           | 101C132U150AH2B        | 163.0                                 | 4.0                                    | 1 3/8 x 2 5/8                     |
| 1500                           | 101C152U150BA2B        | 159.0                                 | 4.8                                    | 2 x 2 1/8                         |
| 1700                           | 101C172U150AB2B        | 125.0                                 | 4.9                                    | 1 3/8 x 3 1/8                     |
| 1800                           | 101C182U150EH2B        | 133.0                                 | 5.2                                    | 1 3/4 x 2 5/8                     |
| 1900                           | 101C192U150AJ2B        | 112.0                                 | 5.5                                    | 1 3/8 x 3 5/8                     |
| 2300                           | 101C232U150BH2B        | 104.0                                 | 6.3                                    | 2 x 2 5/8                         |
| 2500                           | 101C252U150EB2B        | 95.5                                  | 6.5                                    | 1 3/4 x 3 1/8                     |
| 2500                           | 101C252U150AC2B        | 84.9                                  | 6.6                                    | 1 3/8 x 4 1/8                     |
| 2700                           | 101C272U150AD2B        | 80.1                                  | 7.1                                    | 1 3/8 x 4 5/8                     |
| 3100                           | 101C312U150AE2B        | 74.0                                  | 7.6                                    | 1 3/8 x 5 1/8                     |
| 3200                           | 101C322U150EJ2B        | 74.6                                  | 7.7                                    | 1 3/4 x 3 5/8                     |
| 3400                           | 101C342U150BB2B        | 54.6                                  | 9.3                                    | 2 x 3 1/8                         |
| 3600                           | 101C362U150AF2B        | 66.3                                  | 8.4                                    | 1 3/8 x 5 5/8                     |
| 3800                           | 101C382U150CH2B        | 62.8                                  | 9.4                                    | 2 1/2 x 2 5/8                     |
| 4000                           | 101C402U150BJ2B        | 59.7                                  | 9.4                                    | 2 x 3 5/8                         |
| 4400                           | 101C442U150EC2B        | 54.3                                  | 9.5                                    | 1 3/4 x 4 1/8                     |
| 4500                           | 101C452U150ED2B        | 53.1                                  | 10.0                                   | 1 3/4 x 4 5/8                     |
| 5200                           | 101C522U150EE2B        | 45.9                                  | 11.1                                   | 1 3/4 x 5 1/8                     |



# Type 101C -55 °C to 105 °C Low-ESR, Wide-Temperature Grade

| Cap.<br>(µF)                   | Catalog<br>Part Number | ESR Max.<br>@ 25 °C<br>120 Hz<br>(mΩ) | Ripple Max.<br>@ 85°C<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) | Cap.<br>(µF)                   | Catalog<br>Part Number | ESR Max.<br>@ 25 °C<br>120 Hz<br>(mΩ) | Ripple Max.<br>@ 85°C<br>120 Hz<br>(A) | Nominal Size<br>D x L<br>(inches) |
|--------------------------------|------------------------|---------------------------------------|--|-----------------------------------|--------------------------------|------------------------|---------------------------------------|--|-----------------------------------|
| 5200                           | 101C522U150CB2B        | 45.9                                  | 11.6                                   | 2 1/2 x 3 1/8                     | 8300                           | 101C832T200CE2B        | 24.0                                  | 19.0                                   | 2 1/2 x 5 1/8                     |
| 5200                           | 101C522U150BC2B        | 45.0                                  | 11.3                                   | 2 x 4 1/8                         | 9300                           | 101C932T200DC2B        | 21.4                                  | 20.9                                   | 3 x 4 1/8                         |
| 5700                           | 101C572U150BD2B        | 41.9                                  | 12.2                                   | 2 x 4 5/8                         | 10000                          | 101C103T200CF2B        | 21.2                                  | 20.8                                   | 2 1/2 x 5 5/8                     |
| 5800                           | 101C582U150EF2B        | 41.2                                  | 12.2                                   | 1 3/4 x 5 5/8                     | 11000                          | 101C113T200DD2B        | 20.5                                  | 22.1                                   | 3 x 4 5/8                         |
| 6600                           | 101C662U150BE2B        | 36.2                                  | 13.6                                   | 2 x 5 1/8                         | 13000                          | 101C133T200DB2B        | 17.8                                  | 20.9                                   | 3 x 3 1/8                         |
| 6600                           | 101C662U150CJ2B        | 36.2                                  | 13.8                                   | 2 1/2 x 3 5/8                     | 13000                          | 101C133T200DE2B        | 17.8                                  | 24.5                                   | 3 x 5 1/8                         |
| 7800                           | 101C782U150DB2B        | 35.7                                  | 14.8                                   | 3 x 3 1/8                         | 14000                          | 101C143T200DF2B        | 16.9                                  | 25.9                                   | 3 x 5 5/8                         |
| 7900                           | 101C792U150BF2B        | 30.2                                  | 15.3                                   | 2 x 5 5/8                         | 15000                          | 101C153T200DP2B        | 15.9                                  | 27.1                                   | 3 x 5 7/8                         |
| 8500                           | 101C852U150CC2B        | 28.1                                  | 16.3                                   | 2 1/2 x 4 1/8                     | 20000                          | 101C203T200DN2D        | 12.5                                  | 33.9                                   | 3 x 7 5/8                         |
| 9400                           | 101C942U150CD2B        | 25.4                                  | 17.8                                   | 2 1/2 x 4 5/8                     | 23000                          | 101C233T200DG2D        | 10.4                                  | 37.8                                   | 3 x 8 5/8                         |
| 9900                           | 101C992U150DJ2B        | 28.1                                  | 17.5                                   | 3 x 3 5/8                         | <b>250 Vdc (350 Vdc Surge)</b> |                        |                                       |  |                                   |
| 11000                          | 101C113U150CE2B        | 21.7                                  | 19.9                                   | 2 1/2 x 5 1/8                     | 290                            | 101C291T250AK2B        | 549.0                                 | 1.8                                    | 1 3/8 x 1 5/8                     |
| 12000                          | 101C123U150DC2B        | 23.2                                  | 20.1                                   | 3 x 4 1/8                         | 530                            | 101C531T250AA2B        | 300.0                                 | 2.7                                    | 1 3/8 x 2 1/8                     |
| 13000                          | 101C133U150CF2B        | 18.4                                  | 22.3                                   | 2 1/2 x 5 5/8                     | 700                            | 101C701T250EA2B        | 227.0                                 | 3.7                                    | 1 3/4 x 2 1/8                     |
| 14000                          | 101C143U150DD2B        | 19.9                                  | 22.5                                   | 3 x 4 5/8                         | 760                            | 101C761T250AH2B        | 209.0                                 | 3.5                                    | 1 3/8 x 2 5/8                     |
| 16000                          | 101C163U150DE2B        | 17.4                                  | 24.8                                   | 3 x 5 1/8                         | 890                            | 101C891T250BA2B        | 164.0                                 | 4.7                                    | 2 x 2 1/8                         |
| 18000                          | 101C183U150DF2B        | 15.5                                  | 27.1                                   | 3 x 5 5/8                         | 990                            | 101C991T250AB2B        | 161.0                                 | 4.3                                    | 1 3/8 x 3 1/8                     |
| 19000                          | 101C193U150DP2B        | 14.7                                  | 28.2                                   | 3 x 5 7/8                         | 1100                           | 101C112T250EH2B        | 145.0                                 | 5.0                                    | 1 3/4 x 2 5/8                     |
| 26000                          | 101C263U150DN2D        | 11.3                                  | 35.7                                   | 3 x 7 5/8                         | 1200                           | 101C122T250AJ2B        | 133.0                                 | 5.0                                    | 1 3/8 x 3 5/8                     |
| 30000                          | 101C303U150DG2D        | 9.3                                   | 40.0                                   | 3 x 8 5/8                         | 1400                           | 101C142T250BH2B        | 104.0                                 | 6.3                                    | 2 x 2 5/8                         |
| <b>200 Vdc (275 Vdc Surge)</b> |                        |                                       |  |                                   | 1500                           | 101C152T250AC2B        | 106.0                                 | 5.9                                    | 1 3/8 x 4 1/8                     |
| 380                            | 101C381T200AK2B        | 454.0                                 | 2.0                                    | 1 3/8 x 1 5/8                     | 1500                           | 101C152T250EB2B        | 106.0                                 | 6.2                                    | 1 3/4 x 3 1/8                     |
| 680                            | 101C681T200AA2B        | 254.0                                 | 3.0                                    | 1 3/8 x 2 1/8                     | 1700                           | 101C172T250AD2B        | 101.0                                 | 6.3                                    | 1 3/8 x 4 5/8                     |
| 890                            | 101C891T200EA2B        | 224.0                                 | 3.7                                    | 1 3/4 x 2 1/8                     | 1900                           | 101C192T250AE2B        | 90.7                                  | 6.9                                    | 1 3/8 x 5 1/8                     |
| 980                            | 101C981T200AH2B        | 176.0                                 | 3.9                                    | 1 3/8 x 2 5/8                     | 1900                           | 101C192T250EJ2B        | 83.8                                  | 7.3                                    | 1 3/4 x 3 5/8                     |
| 1100                           | 101C112T200BA2B        | 181.0                                 | 4.5                                    | 2 x 2 1/8                         | 1900                           | 101C192T250BB2B        | 69.8                                  | 8.2                                    | 2 x 3 1/8                         |
| 1300                           | 101C132T200AB2B        | 133.0                                 | 4.8                                    | 1 3/8 x 3 1/8                     | 2200                           | 101C222T250AF2B        | 84.4                                  | 7.4                                    | 1 3/8 x 5 5/8                     |
| 1400                           | 101C142T200EH2B        | 142.0                                 | 5.0                                    | 1 3/4 x 2 5/8                     | 2300                           | 101C232T250CH2B        | 75.0                                  | 8.6                                    | 2 1/2 x 2 5/8                     |
| 1600                           | 101C162T200AJ2B        | 108.0                                 | 5.6                                    | 1 3/8 x 3 5/8                     | 2300                           | 101C232T250EC2B        | 69.2                                  | 8.4                                    | 1 3/4 x 4 1/8                     |
| 1800                           | 101C182T200BH2B        | 111.0                                 | 6.1                                    | 2 x 2 5/8                         | 2400                           | 101C242T250BJ2B        | 58.0                                  | 9.5                                    | 2 x 3 5/8                         |
| 1900                           | 101C192T200EB2B        | 105.0                                 | 6.2                                    | 1 3/4 x 3 1/8                     | 2700                           | 101C272T250ED2B        | 58.9                                  | 9.5                                    | 1 3/4 x 4 5/8                     |
| 1900                           | 101C192T200AC2B        | 88.9                                  | 6.4                                    | 1 3/8 x 4 1/8                     | 2900                           | 101C292T250BC2B        | 50.3                                  | 10.7                                   | 2 x 4 1/8                         |
| 2200                           | 101C222T200AD2B        | 90.4                                  | 6.7                                    | 1 3/8 x 4 5/8                     | 3100                           | 101C312T250CB2B        | 55.6                                  | 10.6                                   | 2 1/2 x 3 1/8                     |
| 2400                           | 101C242T200EJ2B        | 82.9                                  | 7.3                                    | 1 3/4 x 3 5/8                     | 3100                           | 101C312T250EE2B        | 51.3                                  | 10.5                                   | 1 3/4 x 5 1/8                     |
| 2400                           | 101C242T200BB2B        | 82.9                                  | 7.5                                    | 2 x 3 1/8                         | 3400                           | 101C342T250BD2B        | 45.6                                  | 11.7                                   | 2 x 4 5/8                         |
| 2500                           | 101C252T200AE2B        | 79.6                                  | 7.4                                    | 1 3/8 x 5 1/8                     | 3500                           | 101C352T250EF2B        | 45.5                                  | 11.6                                   | 1 3/4 x 5 5/8                     |
| 2800                           | 101C282T200AF2B        | 71.0                                  | 8.1                                    | 1 3/8 x 5 5/8                     | 3900                           | 101C392T250BE2B        | 42.0                                  | 12.6                                   | 2 x 5 1/8                         |
| 3100                           | 101C312T200BJ2B        | 64.2                                  | 9.0                                    | 2 x 3 5/8                         | 4000                           | 101C402T250CJ2B        | 43.1                                  | 12.6                                   | 2 1/2 x 3 5/8                     |
| 3400                           | 101C342T200EC2B        | 58.5                                  | 9.1                                    | 1 3/4 x 4 1/8                     | 4500                           | 101C452T250BF2B        | 38.3                                  | 13.6                                   | 2 x 5 5/8                         |
| 3500                           | 101C352T200ED2B        | 56.8                                  | 9.7                                    | 1 3/4 x 4 5/8                     | 4700                           | 101C472T250DB2B        | 42.3                                  | 13.6                                   | 3 x 3 1/8                         |
| 4000                           | 101C402T200EE2B        | 49.7                                  | 10.7                                   | 1 3/4 x 5 1/8                     | 5100                           | 101C512T250CC2B        | 30.6                                  | 15.6                                   | 2 1/2 x 4 1/8                     |
| 4000                           | 101C402T200CB2B        | 49.7                                  | 11.2                                   | 2 1/2 x 3 1/8                     | 5700                           | 101C572T250CD2B        | 28.9                                  | 16.7                                   | 2 1/2 x 4 5/8                     |
| 4000                           | 101C402T200BC2B        | 43.1                                  | 11.5                                   | 2 x 4 1/8                         | 5900                           | 101C592T250DJ2B        | 33.7                                  | 16.0                                   | 3 x 3 5/8                         |
| 4400                           | 101C442T200BD2B        | 45.2                                  | 11.7                                   | 2 x 4 5/8                         | 6500                           | 101C652T250CE2B        | 26.6                                  | 18.0                                   | 2 1/2 x 5 1/8                     |
| 4500                           | 101C452T200EF2B        | 44.2                                  | 11.7                                   | 1 3/4 x 5 5/8                     | 7200                           | 101C722T250DC2B        | 27.6                                  | 18.4                                   | 3 x 4 1/8                         |
| 5000                           | 101C502T200BE2B        | 39.8                                  | 12.9                                   | 2 x 5 1/8                         | 7700                           | 101C772T250CF2B        | 24.1                                  | 19.5                                   | 2 1/2 x 5 5/8                     |
| 5100                           | 101C512T200CJ2B        | 39.0                                  | 13.3                                   | 2 1/2 x 3 5/8                     | 8500                           | 101C852T250DD2B        | 23.4                                  | 20.7                                   | 3 x 4 5/8                         |
| 6100                           | 101C612T200BF2B        | 32.6                                  | 14.7                                   | 2 x 5 5/8                         | 9700                           | 101C972T250DE2B        | 20.5                                  | 22.8                                   | 3 x 5 1/8                         |
| 6500                           | 101C652T200CC2B        | 26.3                                  | 16.9                                   | 2 1/2 x 4 1/8                     | 11000                          | 101C113T250DF2B        | 18.1                                  | 25.0                                   | 3 x 5 5/8                         |
| 7200                           | 101C722T200CD2B        | 27.6                                  | 17.1                                   | 2 1/2 x 4 5/8                     | 12000                          | 101C123T250DP2B        | 16.6                                  | 26.5                                   | 3 x 5 7/8                         |
| 7600                           | 101C762T200DJ2B        | 29.7                                  | 17.0                                   | 3 x 3 5/8                         | 16000                          | 101C163T250DN2D        | 13.4                                  | 32.8                                   | 3 x 7 5/8                         |
|                                |                        |                                       |  |                                   | 18000                          | 101C183T250DG2D        | 11.1                                  | 36.7                                   | 3 x 8 5/8                         |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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