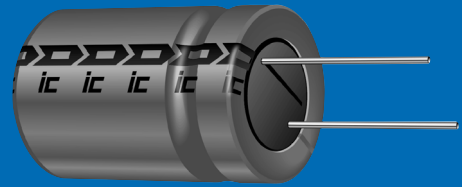


# RZM

## +105°C High Frequency Radial Lead Aluminum Electrolytic Capacitors



*For All Applications Including Switching Power Supplies*

### FEATURES

- Up to 3,000 Hrs. of Load Life at +105°C and at Full Rated Voltage and Ripple Current
- Low Impedance
- Low ESR
- Capacitance Range: .47  $\mu$ F to 15,000  $\mu$ F
- Voltage Range: 6.3 WVDC to 50 WVDC
- 100 kHz Operating Frequency Range
- Solvent Tolerant End Seals Standard

### SPECIFICATIONS

|                                                                                |            |                                                                                                                                                                                      |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
|--------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|---------------------------------------------------------------------------------------------------|-----------------|------|------|------|-----|--|--|--|
| Capacitance Tolerance                                                          |            | ± 20% at 120Hz, 20°C                                                                                                                                                                 |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
| Operating Temperature Range                                                    |            | -55°C to +105°C                                                                                                                                                                      |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
| Dissipation Factor<br>120Hz, 20°C                                              | WVDC       | 6.3                                                                                                                                                                                  | 10  | 16  | 25  | 35  | 50                                                                                                |                 |      |      |      |     |  |  |  |
|                                                                                | tan δ      | .26                                                                                                                                                                                  | .22 | .18 | .16 | .14 | .12                                                                                               |                 |      |      |      |     |  |  |  |
| Note: For above D.F. specifications, add .02 for every 1,000 μf above 1,000 μf |            |                                                                                                                                                                                      |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
| Impedance Ratio<br>(Max.) @120Hz                                               | WVDC       | 6.3                                                                                                                                                                                  | 10  | 16  | 25  | 35  | 50                                                                                                |                 |      |      |      |     |  |  |  |
|                                                                                | -55°C/20°C | 6                                                                                                                                                                                    | 6   | 4   | 4   | 4   | 3                                                                                                 |                 |      |      |      |     |  |  |  |
| Leakage Current                                                                | WVDC       | ≤ 50 WVDC                                                                                                                                                                            |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
|                                                                                | Time       | 1 minute                                                                                                                                                                             |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
|                                                                                |            | .03 CV                                                                                                                                                                               |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
| Load Life                                                                      |            | 2,000 hours at +105°C with rated voltage and with ripple current, Case dia.(5.0, 6.3)<br>3,000 hours at +105°C with rated voltage and with ripple current, Case dia.(8.0 and larger) |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
|                                                                                |            | Capacitance change<br>Dissipation factor<br>Leakage current                                                                                                                          |     |     |     |     | ≤ 20% of initial measured value<br>≤ 200% of initial specified value<br>≤ initial specified value |                 |      |      |      |     |  |  |  |
| Shelf Life                                                                     |            | 1,000 hours at +105°C with no voltage applied.<br>Units will meet load life specifications                                                                                           |     |     |     |     |                                                                                                   |                 |      |      |      |     |  |  |  |
| Ripple Current Multipliers                                                     |            | Frequency (Hz)                                                                                                                                                                       |     |     |     |     |                                                                                                   | Temperature(°C) |      |      |      |     |  |  |  |
|                                                                                |            | Capacitance (F)                                                                                                                                                                      | 50  | 120 | 300 | 1K  | 10K                                                                                               | 100K            | +105 | +85  | +65  | +50 |  |  |  |
|                                                                                |            | ≤ 4.7                                                                                                                                                                                | .30 | .43 | .54 | .70 | .83                                                                                               | 1.0             | 1.0  | 1.73 | 2.19 | 2.4 |  |  |  |
|                                                                                |            | 4.7 < C ≤ 33                                                                                                                                                                         | .38 | .51 | .62 | .76 | .87                                                                                               | 1.0             | 1.0  | 1.73 | 2.19 | 2.4 |  |  |  |
|                                                                                |            | 33 < C ≤ 100                                                                                                                                                                         | .48 | .60 | .71 | .85 | .90                                                                                               | 1.0             | 1.0  | 1.73 | 2.19 | 2.4 |  |  |  |
|                                                                                |            | 100 < C ≤ 270                                                                                                                                                                        | .60 | .72 | .80 | .91 | .95                                                                                               | 1.0             | 1.0  | 1.73 | 2.19 | 2.4 |  |  |  |
|                                                                                |            | 270 < C ≤ 1000                                                                                                                                                                       | .68 | .83 | .90 | .96 | 1.0                                                                                               | 1.0             | 1.0  | 1.73 | 2.19 | 2.4 |  |  |  |
|                                                                                |            | C > 1000                                                                                                                                                                             | .82 | .91 | .98 | .98 | 1.0                                                                                               | 1.0             | 1.0  | 1.73 | 2.19 | 2.4 |  |  |  |

### SPECIAL ORDER OPTIONS

(See pages 33 thru 37)

- Special tolerances:  $\pm 10\%$  (K),  $-10\% + 30\%$  (Q)
- Tape and Reel/Ammo-Pack
- Cut, Formed, Cut and Formed, and Snap In Leads



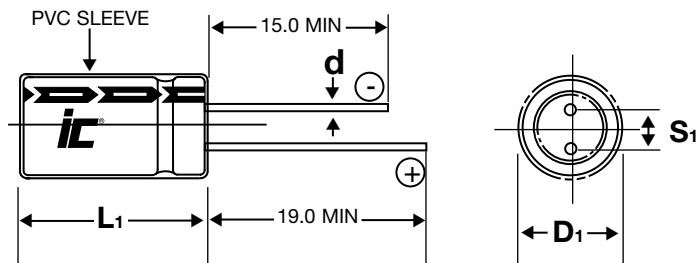
3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • [www.illcap.com](http://www.illcap.com)

## PHYSICAL DIMENSIONS

| WVDC<br>(SV)<br>(μF) | 6.3<br>(7.9)          | 10<br>(13)     | 16<br>(20)            | 25<br>(32)     | 35<br>(44)            | 50<br>(63)     |
|----------------------|-----------------------|----------------|-----------------------|----------------|-----------------------|----------------|
| 0.47                 |                       |                |                       |                |                       | 5x11           |
| 0.68                 |                       |                |                       |                |                       | 5x11           |
| 1.0                  |                       |                |                       |                |                       | 5x11           |
| 1.5                  |                       |                |                       |                |                       | 5x11           |
| 2.2                  |                       |                |                       |                |                       | 5x11           |
| 3.3                  |                       |                |                       |                |                       | 5x11           |
| 4.7                  |                       |                |                       |                |                       | 5x11           |
| 6.8                  |                       |                |                       |                |                       | 5x11           |
| 10                   |                       |                |                       |                |                       | 5x11           |
| 15                   |                       |                |                       |                |                       | 5x11           |
| 22                   |                       | 5x11           | 5x11                  |                |                       | 5x11           |
| 33                   |                       |                |                       |                | 5x11                  | 6.3x11         |
| 47                   |                       |                |                       | 5x11           |                       | 6.3x11         |
| 68                   |                       |                | 5x11                  | 6.3x11         |                       | 8x11.5         |
| 100                  |                       | 5x11           |                       | 6.3x11         |                       | 8x11.5         |
| 150                  |                       | 6.3x11         | 6.3x15                | 8x11.5         | 8x15, 10x12.5         | 10x16          |
| 220                  |                       | 6.3x11         |                       | 8x11.5         | 10x12.5               | 10x16          |
| 330                  | 6.3x11                |                | 8x11.5                | 10x12.5        | 10x16                 | 10x20, 16x15   |
| 470                  |                       | 8x11.5         | 10x12.5               | 10x16          | 10x20, 16x15          | 12.5x20, 18x15 |
| 680                  | 10x12.5               | 10x16          | 10x16                 | 12.5x20, 16x15 | 18x15, 12.5x20        | 12.5x25, 16x20 |
| 1,000                | 10x12.5               | 10x16          | 10x20, 16x15          | 12.5x20, 18x15 | 12.5x25, 16x20        | 16x25          |
| 1,500                | 10x20, 12.5x15        | 12.5x20, 16x15 | 18x15, 12.5x20        | 12.5x25, 16x20 | 12.5x40, 16x25, 18x20 | 16x40, 18x31.5 |
| 2,200                | 10x20, 12.5x20, 16x15 | 12.5x20, 18x15 | 12.5x25, 16x20        | 16x25, 18x20   | 16x31.5               | 18x35.5        |
| 3,300                | 12.5x20, 18x15        | 12.5x25, 16x20 | 12.5x40, 16x25, 18x20 | 16x31.5        | 18x35.5               |                |
| 4,700                | 16x25, 18x20          | 16x25          | 16x31.5               | 18x35.5        | 18x40                 |                |
| 6,800                | 16x25                 | 16x31.5        | 18x35.5               |                |                       |                |
| 10,000               | 16x31.5               | 18x35.5        | 18x40                 |                |                       |                |
| 15,000               | 18x35.5               | 18x40          |                       |                |                       |                |

Convert to inches, divide by 25.4

DxL(mm)



### LEAD INFORMATION V.S. CASE DIAMETER

| D | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16  | 18  |
|---|-----|-----|-----|------|------|-----|-----|
| S | 2.0 | 2.5 | 3.5 | 5.0  | 5.0  | 7.5 | 7.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6  | 0.6  | 0.8 | 0.8 |
| B | 0.5 | 0.5 | 0.5 | 0.5  | 0.8  | 0.5 | 0.5 |

L≤16, L<sub>1</sub>=L+1.5 mm Max. L>16, L<sub>1</sub>=L+2.0 mm Max.  
D<sub>1</sub>=D+B Max. S<sub>1</sub>=S±0.5 mm Max.  
D=12.5 and L>25 d=0.8 mm

NOTE: Case Vent is standard on all diameter ≥8.0mm

## STANDARD PART LISTING

| Capacitance<br>(μF) | WVDC | IC <sup>®</sup> PART<br>NUMBER | Maximum<br>ESR Ω<br>120Hz,<br>+20°C | Maximum RMS<br>Ripple Current<br>(mA) +105°C<br>100kHz | Impedance<br>Ω<br>100kHz<br>20°C/-10°C | Dimensions<br>DxL<br>(mm) |
|---------------------|------|--------------------------------|-------------------------------------|--------------------------------------------------------|----------------------------------------|---------------------------|
| 0.47                | 50   | 474RZM050M                     | 423.284                             | 20                                                     | 6.5 / 19.5                             | 5x11                      |
| 0.68                | 50   | 684RZM050M                     | 292.564                             | 30                                                     | 5.5 / 16.5                             | 5x11                      |
| 1.0                 | 50   | 105RZM050M                     | 198.944                             | 40                                                     | 4.5/13.5                               | 5x11                      |
| 1.5                 | 50   | 155RZM050M                     | 132.629                             | 40                                                     | 4.5/13.5                               | 5x11                      |
| 2.2                 | 50   | 225RZM050M                     | 90.529                              | 50                                                     | 3.9/11.7                               | 5x11                      |
| 3.3                 | 50   | 335RZM050M                     | 60.286                              | 65                                                     | 3.38/10.14                             | 5x11                      |
| 4.7                 | 50   | 475RZM050M                     | 42.328                              | 65                                                     | 3/9                                    | 5x11                      |
| 6.8                 | 50   | 685RZM050M                     | 29.256                              | 70                                                     | 2.6/7.8                                | 5x11                      |
| 10                  | 50   | 106RZM050M                     | 19.894                              | 80                                                     | 1.82/5.46                              | 5x11                      |
| 15                  | 50   | 156RZM050M                     | 13.263                              | 80                                                     | 1.75/5.25                              | 5x11                      |
| 22                  | 10   | 226RZM010M                     | 16.579                              | 180                                                    | .78/2.4                                | 5x11                      |
| 22                  | 16   | 226RZM016M                     | 13.564                              | 180                                                    | .78/2.4                                | 5x11                      |
| 22                  | 50   | 226RZM050M                     | 9.043                               | 150                                                    | 1.6/4.8                                | 5x11                      |
| 33                  | 35   | 336RZM035M                     | 7.033                               | 100                                                    | .8/2.4                                 | 5x11                      |
| 33                  | 50   | 336RZM050M                     | 6.029                               | 200                                                    | .56/1.68                               | 6.3x11                    |
| 47                  | 25   | 476RZM025M                     | 5.644                               | 150                                                    | .78/2.34                               | 5x11                      |
| 47                  | 50   | 476RZM050M                     | 4.233                               | 210                                                    | .56/1.68                               | 6.3x11                    |
| 68                  | 16   | 686RZM016M                     | 4.389                               | 150                                                    | .65/1.95                               | 5x11                      |
| 68                  | 25   | 686RZM025M                     | 3.901                               | 200                                                    | .6/1.8                                 | 6.3x11                    |
| 68                  | 50   | 686RZM050M                     | 2.926                               | 300                                                    | .5/1.5                                 | 8x11.5                    |
| 100                 | 10   | 107RZM010M                     | 3.647                               | 100                                                    | 0.8/2.4                                | 5x11                      |
| 100                 | 25   | 107RZM025M                     | 2.653                               | 230                                                    | .4/1.2                                 | 6.3x11                    |
| 100                 | 50   | 107RZM050M                     | 1.989                               | 325                                                    | .35/1.05                               | 8x11.5                    |
| 150                 | 10   | 157RZM010M                     | 2.432                               | 230                                                    | .33/99                                 | 6.3x11                    |
| 150                 | 16   | 157RZM016M                     | 1.989                               | 260                                                    | 0.45/1.34                              | 6.3x15                    |
| 150                 | 25   | 157RZM025M                     | 1.768                               | 395                                                    | .2/6                                   | 8x11.5                    |
| 150                 | 35   | 157RZM035M815                  | 1.547                               | 405                                                    | .3/9                                   | 8x15                      |
| 150                 | 35   | 157RZM035M1013                 | 1.547                               | 435                                                    | 0.2/0.6                                | 10x12.5                   |
| 150                 | 50   | 157RZM050M                     | 1.326                               | 525                                                    | 0.22/0.66                              | 10x16                     |
| 220                 | 10   | 227RZM010M                     | 1.658                               | 250                                                    | .33/99                                 | 6.3x11                    |
| 220                 | 25   | 227RZM025M                     | 1.206                               | 395                                                    | .25/.75                                | 8x11.5                    |
| 220                 | 35   | 227RZM035M1013                 | 1.055                               | 535                                                    | .22/.66                                | 10x12.5                   |
| 220                 | 50   | 227RZM050M                     | 0.904                               | 600                                                    | .18/.54                                | 10x16                     |
| 330                 | 6.3  | 337RZM6R3M                     | 1.306                               | 250                                                    | .33/99                                 | 6.3x11                    |
| 330                 | 16   | 337RZM016M                     | 0.904                               | 395                                                    | .18/.54                                | 8x11.5                    |
| 330                 | 25   | 337RZM025M1013                 | 0.804                               | 535                                                    | .12/.36                                | 10x12.5                   |
| 330                 | 35   | 337RZM035M                     | 0.703                               | 725                                                    | .092/.276                              | 10x16                     |
| 330                 | 50   | 337RZM050M1020                 | 0.603                               | 750                                                    | .14/.42                                | 10x20                     |
| 330                 | 50   | 337RZM050M1615                 | 0.603                               | 850                                                    | .19/.57                                | 16x15                     |
| 470                 | 10   | 477RZM010M                     | 0.776                               | 395                                                    | .25/.75                                | 8x11.5                    |

| Capacitance<br>(μF) | WVDC | IC <sup>®</sup> PART<br>NUMBER | Maximum<br>ESR Ω<br>120Hz,<br>+20°C | Maximum RMS<br>Ripple Current<br>(mA) +105°C<br>100kHz | Impedance<br>Ω<br>100kHz<br>20°C/-10°C | Dimensions<br>DxL<br>(mm) |
|---------------------|------|--------------------------------|-------------------------------------|--------------------------------------------------------|----------------------------------------|---------------------------|
| 470                 | 16   | 477RZM016M1013                 | 0.635                               | 535                                                    | .15/.45                                | 10x12.5                   |
| 470                 | 25   | 477RZM025M                     | 0.564                               | 725                                                    | .091/.273                              | 10x16                     |
| 470                 | 35   | 477RZM035M1020                 | 0.494                               | 1000                                                   | .07/.21                                | 10x20                     |
| 470                 | 35   | 477RZM035M1615                 | 0.494                               | 900                                                    | 0.11/.33                               | 16x15                     |
| 470                 | 50   | 477RZM050M1320                 | 0.423                               | 1100                                                   | .11/.33                                | 12.5x20                   |
| 470                 | 50   | 477RZM050M1815                 | 0.423                               | 1000                                                   | .16/.48                                | 18x15                     |
| 680                 | 6.3  | 687RZM6R3M1013                 | 0.634                               | 535                                                    | .12/.36                                | 10x12.5                   |
| 680                 | 10   | 687RZM010M1016                 | 0.536                               | 725                                                    | .12/.36                                | 10x16                     |
| 680                 | 16   | 687RZM016M                     | 0.439                               | 725                                                    | .091/.273                              | 10x16                     |
| 680                 | 25   | 687RZM025M1320                 | 0.390                               | 950                                                    | .075/.225                              | 12.5x20                   |
| 680                 | 25   | 687RZM025M1615                 | 0.390                               | 1000                                                   | 0.11/.33                               | 16x15                     |
| 680                 | 35   | 687RZM035M1320                 | 0.341                               | 1150                                                   | .065/.195                              | 12.5x20                   |
| 680                 | 35   | 687RZM035M1815                 | 0.341                               | 1100                                                   | .08/.24                                | 18x15                     |
| 680                 | 50   | 687RZM050M1325                 | 0.293                               | 1150                                                   | .85/.255                               | 12.5x25                   |
| 680                 | 50   | 687RZM050M1620                 | 0.293                               | 1200                                                   | .08/.24                                | 16x20                     |
| 1,000               | 6.3  | 108RZM6R3M                     | 0.431                               | 535                                                    | 0.13/0.39                              | 10x12.5                   |
| 1,000               | 10   | 108RZM010M                     | 0.365                               | 725                                                    | 0.13/0.39                              | 10x16                     |
| 1,000               | 16   | 108RZM016M1020                 | 0.298                               | 900                                                    | 0.07/.21                               | 10x20                     |
| 1,000               | 16   | 108RZM016M1615                 | 0.298                               | 1000                                                   | 0.11/0.33                              | 16x15                     |
| 1,000               | 25   | 108RZM025M1320                 | 0.265                               | 1150                                                   | 0.07/0.21                              | 12.5x20                   |
| 1,000               | 25   | 108RZM025M1815                 | 0.265                               | 1100                                                   | .08/.24                                | 18x15                     |
| 1,000               | 35   | 108RZM035M1325                 | 0.232                               | 1300                                                   | 0.05/0.15                              | 12.5x25                   |
| 1,000               | 35   | 108RZM035M1620                 | 0.232                               | 1350                                                   | .075/.225                              | 16x20                     |
| 1,000               | 50   | 108RZM050M                     | 0.199                               | 1350                                                   | .06/.18                                | 16x25                     |
| 1,500               | 6.3  | 158RZM6R3M1020                 | 0.310                               | 900                                                    | .07/.21                                | 10x20                     |
| 1,500               | 6.3  | 158RZM6R3M1315                 | 0.310                               | 970                                                    | 0.1/0.3                                | 12.5x15                   |
| 1,500               | 10   | 158RZM010M1320                 | 0.265                               | 1150                                                   | 0.90/.27                               | 12.5x20                   |
| 1,500               | 10   | 158RZM010M1615                 | 0.265                               | 1000                                                   | .11/.33                                | 16x15                     |
| 1,500               | 16   | 158RZM016M1320                 | 0.221                               | 1150                                                   | .065/.195                              | 12.5x20                   |
| 1,500               | 16   | 158RZM016M1815                 | 0.199                               | 1100                                                   | .08/.24                                | 18x15                     |
| 1,500               | 25   | 158RZM025M1325                 | 0.199                               | 1300                                                   | .073/.219                              | 12.5x25                   |
| 1,500               | 25   | 158RZM025M1620                 | 0.199                               | 1350                                                   | .038/.114                              | 16x20                     |
| 1,500               | 35   | 158RZM035M1340                 | 0.155                               | 1800                                                   | .048/.144                              | 12.5x40                   |
| 1,500               | 35   | 158RZM035M1625                 | 0.177                               | 1570                                                   | .033/.099                              | 16x25                     |
| 1,500               | 35   | 158RZM035M1820                 | 0.177                               | 1500                                                   | .061/.183                              | 18x20                     |
| 1,500               | 50   | 158RZM050M1640                 | 0.133                               | 2050                                                   | 0.049/0.147                            | 16x40                     |
| 1,500               | 50   | 158RZM050M1832                 | 0.155                               | 2000                                                   | .046/.138                              | 18x31.5                   |
| 2,200               | 6.3  | 228RZM6R3M1030                 | 0.226                               | 1100                                                   | .095/.285                              | 10x30                     |
| 2,200               | 6.3  | 228RZM6R3M1320                 | 0.226                               | 1150                                                   | .065/.195                              | 12.5x20                   |
| 2,200               | 6.3  | 228RZM6R3M1615                 | 0.196                               | 1100                                                   | .11/.33                                | 16x15                     |

## STANDARD PART LISTING

| Capacitance<br>( $\mu$ F) | WVDC | IC PART<br>NUMBER | Maximum<br>ESR $\Omega$<br>120Hz,<br>+20°C | Maximum RMS<br>Ripple Current<br>(mA) +105°C<br>100kHz | Impedance<br>$\Omega$<br>100kHz<br>20°C/-10°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|-------------------|--------------------------------------------|--------------------------------------------------------|-----------------------------------------------|---------------------------|
| 2,200                     | 10   | 228RZM010M1320    | 0.196                                      | 1150                                                   | .07/.21                                       | 12.5x20                   |
| 2,200                     | 10   | 228RZM010M1815    | 0.196                                      | 1100                                                   | .08/.24                                       | 18x15                     |
| 2,200                     | 16   | 228RZM016M1325    | 0.166                                      | 1300                                                   | .05/.15                                       | 12.5x25                   |
| 2,200                     | 16   | 228RZM016M1620    | 0.166                                      | 1350                                                   | .075/.225                                     | 16x20                     |
| 2,200                     | 25   | 228RZM025M1625    | 0.151                                      | 1570                                                   | .035/.105                                     | 16x25                     |
| 2,200                     | 25   | 228RZM025M1820    | 0.151                                      | 1500                                                   | .061/.183                                     | 18x20                     |
| 2,200                     | 35   | 228RZM035M        | 0.136                                      | 1850                                                   | .028/.084                                     | 16x31.5                   |
| 2,200                     | 50   | 228RZM050M        | 0.121                                      | 2100                                                   | .045/.135                                     | 18x35.5                   |
| 3,300                     | 6.3  | 338RZM6R3M1320    | 0.161                                      | 1150                                                   | .065/.195                                     | 12.5x20                   |
| 3,300                     | 6.3  | 338RZM6R3M1815    | 0.161                                      | 1100                                                   | .08/.24                                       | 18x15                     |
| 3,300                     | 10   | 338RZM010M1325    | 0.141                                      | 1300                                                   | .038/.114                                     | 12.5x25                   |
| 3,300                     | 10   | 338RZM010M1620    | 0.141                                      | 1350                                                   | .075/.225                                     | 16x20                     |
| 3,300                     | 16   | 338RZM016M1340    | 0.121                                      | 1600                                                   | .048/.144                                     | 12.5x40                   |
| 3,300                     | 16   | 338RZM016M1625    | 0.121                                      | 1570                                                   | .033/.099                                     | 16x25                     |
| 3,300                     | 16   | 338RZM016M1820    | 0.121                                      | 1500                                                   | .061/.183                                     | 18x20                     |
| 3,300                     | 25   | 338RZM025M        | 0.111                                      | 1850                                                   | .028/.084                                     | 16x31.5                   |

| Capacitance<br>( $\mu$ F) | WVDC | IC PART<br>NUMBER | Maximum<br>ESR $\Omega$<br>120Hz,<br>+20°C | Maximum RMS<br>Ripple Current<br>(mA) +105°C<br>100kHz | Impedance<br>$\Omega$<br>100kHz<br>20°C/-10°C | Dimensions<br>DxL<br>(mm) |
|---------------------------|------|-------------------|--------------------------------------------|--------------------------------------------------------|-----------------------------------------------|---------------------------|
| 3,300                     | 35   | 338RZM035M        | 0.101                                      | 2200                                                   | .026/.078                                     | 18x35.5                   |
| 4,700                     | 6.3  | 478RZM6R3M1625    | 0.120                                      | 1500                                                   | .033/.099                                     | 16x25                     |
| 4,700                     | 6.3  | 478RZM6R3M1820    | 0.120                                      | 1550                                                   | .061/.183                                     | 18x20                     |
| 4,700                     | 10   | 478RZM010M        | 0.106                                      | 1570                                                   | .033/.099                                     | 16x25                     |
| 4,700                     | 16   | 478RZM016M        | 0.092                                      | 1850                                                   | .028/0.074                                    | 16x31.5                   |
| 4,700                     | 25   | 478RZM025M        | 0.085                                      | 2200                                                   | .028/.078                                     | 18x35.5                   |
| 4,700                     | 35   | 478RZM035M        | 0.078                                      | 2400                                                   | .023/.069                                     | 18x40                     |
| 6,800                     | 6.3  | 688RZM6R3M        | 0.093                                      | 1570                                                   | .033/.099                                     | 16x25                     |
| 6,800                     | 10   | 688RZM010M        | 0.083                                      | 1850                                                   | .028/.084                                     | 16x31.5                   |
| 6,800                     | 16   | 688RZM016M        | 0.073                                      | 2200                                                   | .026/.078                                     | 18x35.5                   |
| 10,000                    | 6.3  | 109RZM6R3M        | 0.073                                      | 1850                                                   | 0.029/0.087                                   | 16x31.5                   |
| 10,000                    | 10   | 109RZM010M        | 0.066                                      | 2200                                                   | 0.025/0.075                                   | 18x35.5                   |
| 10,000                    | 16   | 109RZM016M        | 0.060                                      | 2460                                                   | 0.024/0.072                                   | 18x40                     |
| 15,000                    | 6.3  | 159RZM6R3M        | 0.053                                      | 2200                                                   | 0.026/0.078                                   | 18x35.5                   |
| 15,000                    | 10   | 159RZM010M        | 0.055                                      | 2460                                                   | 0.023/0.069                                   | 18x40                     |