



**THE DATASHEET OF  
687KXM016MLQ**





# Radial Lead Aluminum Electrolytic Capacitors

+105°C Low Impedance

## FEATURES

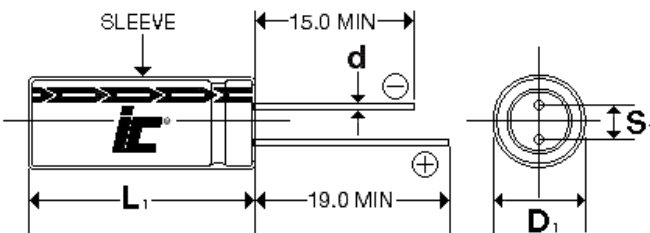
Standardized Case Sizes - High Ripple Current - Multiple Case Sizes

## APPLICATIONS

Bypass - Coupling - Filtering - De-Coupling

|   |                       |   |                                  |            |           |            |             |           |            |
|---|-----------------------|---|----------------------------------|------------|-----------|------------|-------------|-----------|------------|
| <b>Operating Temperature Range</b>                        |                       | <b>-55°C to +105°C</b>  |                                  |            |           |            |             |           |            |
| <b>Capacitance Tolerance</b>                              |                       | <b>+20% at 120 Hz, 20°C</b>   |                                  |            |           |            |             |           |            |
| <b>Surge Voltage</b>                                      | <b>WVDC</b>           | <b>6.3</b>  | <b>10</b>                        | <b>16</b>  | <b>25</b> | <b>35</b>  | <b>50</b>   | <b>63</b> | <b>100</b> |
|   | <b>SVDC</b>           | 7.9   | 13                               | 20         | 32        | 44         | 63          | 79        | 125        |
| <b>Dissipation Factor</b>                                 | <b>WVDC</b>           | <b>6.3</b>  | <b>10</b>                        | <b>16</b>  | <b>25</b> | <b>35</b>  | <b>50</b>   | <b>63</b> | <b>100</b> |
|   | <b>Tan δ</b>          | .22   | .19                              | .16        | .14       | .12        | .1          | .1        | .1         |
| <b>Leakage Current</b>                                    |                       | Add .02 for every 1000uF above 1000uF   |                                  |            |           |            |             |           |            |
| <b>Low Temperature Stability Impedance Ratio (120 Hz)</b> |                       | <b>2 Minutes</b>  |                                  |            |           |            |             |           |            |
|   |                       | .01CV or 3uA, Whichever is greater  |                                  |            |           |            |             |           |            |
| <b>Low Temperature Stability Impedance Ratio (120 Hz)</b> | <b>WVDC</b>           | <b>6.3</b>  | <b>10</b>                        | <b>16</b>  | <b>25</b> | <b>35</b>  | <b>50</b>   | <b>63</b> | <b>100</b> |
|   | <b>-25°C to +20°C</b> | 4   | 3                                | 2          | 2         | 2          | 2           | 2         | 2          |
|   | <b>-40°C to +20°C</b> | 8   | 6                                | 4          | 3         | 3          | 3           | 3         | 3          |
| <b>Load Life</b>  |                       | 5000 hours at 105°C with rated WVDC and ripple current applied (4000 hrs. for D=10, 3000 hrs. for D=8, 2000 hrs. for D≤6.3) |                                  |            |           |            |             |           |            |
|   |                       | <b>Capacitance Change</b>   | ≤25% of initial measured value   |            |           |            |             |           |            |
|   |                       | <b>Dissipation Factor</b>   | ≤200% of maximum specified value |            |           |            |             |           |            |
|   |                       | <b>Leakage Current</b>  | ≤100% of maximum specified value |            |           |            |             |           |            |
| <b>Shelf Life</b>   |                       | 1000 hours at 105°C with no voltage applied   |                                  |            |           |            |             |           |            |
|   |                       | <b>Capacitance Change</b>   | ≤25% initial measured value      |            |           |            |             |           |            |
|   |                       | <b>Dissipation Factor</b>   | ≤200% of maximum specified value |            |           |            |             |           |            |
|   |                       | <b>Leakage Current</b>  | ≤100% of maximum specified value |            |           |            |             |           |            |
| <b>Ripple Current Multipliers</b>                         |                       | <b>Frequency (Hz)</b>   |                                  |            |           |            |             |           |            |
|   |                       | <b>Capacitance</b>  | <b>50</b>                        | <b>120</b> | <b>1k</b> | <b>10k</b> | <b>100k</b> |           |            |
|   |                       | <b>C≤180</b>  | .4                               | .4         | .75       | .9         | 1.0         |           |            |
|   |                       | <b>220&lt;C≤560</b>   | .5                               | .5         | .85       | .94        | 1.0         |           |            |
|   |                       | <b>680&lt;C≤1800</b>  | .6                               | .6         | .87       | .95        | 1.0         |           |            |
|   |                       | <b>2200&lt;C≤3900</b>   | .75                              | .75        | .9        | .95        | 1.0         |           |            |
|   |                       | <b>C≥4700</b>   | .85                              | .85        | .95       | .98        | 1.0         |           |            |

### Special Order Options



|   |     |     |     |     |      |     |     |
|---|-----|-----|-----|-----|------|-----|-----|
| D | 5   | 6.3 | 8   | 10  | 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 |

L<sub>1</sub>=L+1.5 mm Max. (L<20mm)  
L<sub>1</sub>=L+2.0 mm Max. (L>20mm)  
D<sub>1</sub>=D+0.5 mm Max.  
S<sub>1</sub>=S+0.5 mm

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# KXM

**+105°C, High Voltage Low Impedance Long Life, 5000 hours**

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Impedance Ω +20°C/-10°C, 100kHz | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxL (mm) |
|------|------------------|----------------|-------------------------------|---------------------------------|---|---------------|
| 6.3  | 150              | 157KXM6R3M     | 2.4315                        | 0.3/1                           | 250   | 5x11          |
| 6.3  | 330              | 337KXM6R3M     | 1.1052                        | 0.13/0.41                       | 405   | 6.3x11        |
| 6.3  | 560              | 567KXM6R3M     | 0.6513                        | 0.072/0.22                      | 760   | 8x11.5        |
| 6.3  | 820              | 827KXM6R3M     | 0.4448                        | 0.056/0.17                      | 995   | 8x16          |
| 6.3  | 1000             | 108KXM6R3M     | 0.3647                        | 0.053/0.16                      | 1030  | 10x12.5       |
| 6.3  | 1200             | 128KXM6R3M     | 0.3039                        | 0.041/0.13                      | 1250  | 8x20          |
| 6.3  | 1200             | 128KXM6R3MLQ   | 0.3039                        | 0.058/0.144                     | 1430  | 10x16         |
| 6.3  | 1500             | 158KXM6R3M     | 0.2432                        | 0.023/0.069                     | 1820  | 10x20         |
| 6.3  | 2200             | 228KXM6R3M     | 0.1658                        | 0.022/0.066                     | 1980  | 10x25         |
| 6.3  | 3300             | 338KXM6R3M     | 0.1105                        | 0.021/0.053                     | 2080  | 12.5x20       |
| 6.3  | 3900             | 398KXM6R3M     | 0.0935                        | 0.018/0.045                     | 2470  | 12.5x25       |
| 6.3  | 4700             | 478KXM6R3M     | 0.0776                        | 0.016/0.041                     | 3290  | 12.5x30       |
| 6.3  | 5600             | 568KXM6R3M     | 0.0651                        | 0.015/0.039                     | 3400  | 12.5x35       |
| 6.3  | 6800             | 688KXM6R3M     | 0.0536                        | 0.016/0.043                     | 3250  | 16x25         |
| 6.3  | 10000            | 109KXM6R3M     | 0.0365                        | 0.022/0.043                     | 3000  | 16x30         |
| 6.3  | 15000            | 159KXM6R3M     | 0.0243                        | 0.02/0.041                      | 3610  | 18x35         |
| 10   | 100              | 107KXM010M     | 3.1499                        | 0.3/1                           | 250   | 5x11          |
| 10   | 220              | 227KXM010M     | 1.4318                        | 0.13/0.41                       | 405   | 6.3x11        |
| 10   | 470              | 477KXM010M     | 0.6702                        | 0.072/0.22                      | 760   | 8x11.5        |
| 10   | 680              | 687KXM010M     | 0.4632                        | 0.056/0.17                      | 995   | 8x16          |
| 10   | 680              | 687KXM010MLN   | 0.4632                        | 0.077/0.194                     | 760   | 10x12.5       |
| 10   | 1000             | 108KXM010M     | 0.315                         | 0.041/0.13                      | 1250  | 8x20          |
| 10   | 1000             | 108KXM010MLQ   | 0.315                         | 0.063/0.158                     | 1430  | 10x16         |
| 10   | 1200             | 128KXM010M     | 0.2901                        | 0.023/0.069                     | 1820  | 10x20         |
| 10   | 1500             | 158KXM010M     | 0.21                          | 0.022/0.066                     | 2150  | 10x25         |
| 10   | 2200             | 228KXM010M     | 0.1733                        | 0.021/0.053                     | 2150  | 12.5x20       |
| 10   | 3300             | 338KXM010M     | 0.0955                        | 0.018/0.045                     | 2770  | 12.5x25       |
| 10   | 3900             | 398KXM010M     | 0.0808                        | 0.016/0.041                     | 3290  | 12.5x30       |
| 10   | 4700             | 478KXM010M     | 0.067                         | 0.015/0.039                     | 3400  | 12.5x35       |
| 10   | 4700             | 478KXM010MQV   | 0.067                         | 0.025/0.051                     | 2350  | 16x25         |
| 10   | 5600             | 568KXM010M     | 0.0562                        | 0.016/0.043                     | 3018  | 16x25         |
| 10   | 6800             | 688KXM010M     | 0.0463                        | 0.023/0.045                     | 2850  | 16x30         |
| 10   | 10000            | 109KXM010M     | 0.0315                        | 0.021/0.041                     | 3430  | 18x35         |
| 10   | 15000            | 159KXM010M     | 0.021                         | 0.019/0.039                     | 3850  | 18x40         |
| 16   | 56               | 566KXM016M     | 4.7368                        | 0.3/1                           | 250   | 5x11          |
| 16   | 68               | 686KXM016M     | 3.9009                        | 0.5/1.25                        | 180   | 5x11          |
| 16   | 120              | 127KXM016M     | 2.2105                        | 0.13/0.41                       | 405   | 6.3x11        |
| 16   | 330              | 337KXM016M     | 0.8038                        | 0.072/0.22                      | 760   | 8x11.5        |
| 16   | 470              | 477KXM016M     | 0.5644                        | 0.056/0.17                      | 995   | 8x16          |
| 16   | 470              | 477KXM016MLN   | 0.5644                        | 0.053/0.233                     | 1030  | 10x12.5       |
| 16   | 680              | 687KXM016M     | 0.3901                        | 0.041/0.13                      | 1250  | 8x20          |
| 16   | 680              | 687KXM016MLQ   | 0.3901                        | 0.074/0.184                     | 880   | 10x16         |
| 16   | 1000             | 108KXM016M     | 0.2653                        | 0.023/0.069                     | 1820  | 10x20         |
| 16   | 1200             | 128KXM016M     | 0.221                         | 0.022/0.066                     | 2150  | 10x25         |
| 16   | 1500             | 158KXM016M     | 0.1768                        | 0.021/0.053                     | 2360  | 12.5x20       |
| 16   | 2200             | 228KXM016M     | 0.1206                        | 0.018/0.045                     | 2770  | 12.5x25       |
| 16   | 2700             | 278KXM016M     | 0.0982                        | 0.016/0.041                     | 3290  | 12.5x30       |
| 16   | 3300             | 338KXM016M     | 0.0804                        | 0.015/0.039                     | 3150  | 12.5x35       |
| 16   | 3300             | 338KXM016MQV   | 0.0804                        | 0.029/0.057                     | 2200  | 16x25         |
| 16   | 3900             | 398KXM016M     | 0.068                         | 0.016/0.043                     | 3460  | 16x25         |
| 16   | 4700             | 478KXM016M     | 0.0564                        | 0.024/0.048                     | 2670  | 16x30         |
| 16   | 6800             | 688KXM016M     | 0.039                         | 0.022/0.043                     | 3280  | 18x35         |
| 16   | 10000            | 109KXM016M     | 0.0265                        | 0.019/0.039                     | 3670  | 18x40         |
| 25   | 47               | 476KXM025M     | 4.9383                        | 0.3/1                           | 250   | 5x11          |
| 25   | 100              | 107KXM025M     | 2.321                         | 0.13/0.41                       | 410   | 6.3x11        |
| 25   | 220              | 227KXM025M     | 1.055                         | 0.072/0.22                      | 760   | 8x11.5        |
| 25   | 330              | 337KXM025M     | 0.7033                        | 0.056/0.17                      | 995   | 8x16          |
| 25   | 330              | 337KXM025MLN   | 0.7033                        | 0.053/0.17                      | 1030  | 10x12.5       |

| WVDC | Capacitance (µF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Impedance Ω +20°C/-10°C, 100kHz | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxL (mm) |
|------|------------------|----------------|-------------------------------|---------------------------------|---|---------------|
| 25   | 470              | 477KXM025M     | 0.4938                        | 0.041/0.13                      | 1250  | 8x20          |
| 25   | 470              | 477KXM025MLQ   | 0.4938                        | 0.038/0.221                     | 1430  | 10x16         |
| 25   | 680              | 687KXM025M     | 0.3413                        | 0.023/0.069                     | 1820  | 10x20         |
| 25   | 820              | 827KXM025M     | 0.283                         | 0.022/0.066                     | 2150  | 10x25         |
| 25   | 1000             | 108KXM025M     | 0.2321                        | 0.021/0.053                     | 2360  | 12.5x20       |
| 25   | 1200             | 128KXM025M     | 0.1934                        | 0.05/0.124                      | 1730  | 12.5x20       |
| 25   | 1500             | 158KXM025M     | 0.1547                        | 0.018/0.045                     | 2770  | 12.5x25       |
| 25   | 1800             | 188KXM025M     | 0.1289                        | 0.016/0.041                     | 3290  | 12.5x30       |
| 25   | 2200             | 228KXM025M     | 0.1055                        | 0.015/0.039                     | 3400  | 12.5x35       |
| 25   | 2200             | 228KXM025MQV   | 0.1055                        | 0.032/0.065                     | 2390  | 16x25         |
| 25   | 2700             | 278KXM025M     | 0.086                         | 0.016/0.043                     | 3000  | 16x25         |
| 25   | 3300             | 338KXM025M     | 0.0703                        | 0.027/0.054                     | 3020  | 16x30         |
| 25   | 4700             | 478KXM025M     | 0.0494                        | 0.023/0.046                     | 3700  | 18x35         |
| 35   | 33               | 336KXM035M     | 6.0286                        | 0.3/1                           | 250   | 5x11          |
| 35   | 56               | 566KXM035M     | 3.5526                        | 0.25/0.41                       | 350   | 6.3x11        |
| 35   | 68               | 686KXM035M     | 2.9256                        | 0.397/0.991                     | 280   | 6.3x11        |
| 35   | 150              | 157KXM035M     | 1.3263                        | 0.072/0.22                      | 760   | 8x11.5        |
| 35   | 220              | 227KXM035M     | 0.9043                        | 0.065/0.17                      | 980   | 8x16          |
| 35   | 220              | 227KXM035MLN   | 0.9043                        | 0.06/0.319                      | 1050  | 10x12.5       |
| 35   | 270              | 277KXM035M     | 0.7368                        | 0.041/0.13                      | 1250  | 8x20          |
| 35   | 330              | 337KXM035M     | 0.6029                        | 0.038/0.12                      | 1430  | 10x16         |
| 35   | 470              | 477KXM035M     | 0.4233                        | 0.023/0.069                     | 1820  | 10x20         |
| 35   | 560              | 567KXM035M     | 0.3553                        | 0.022/0.066                     | 2150  | 10x25         |
| 35   | 680              | 687KXM035M     | 0.2926                        | 0.021/0.053                     | 2150  | 12.5x20       |
| 35   | 1000             | 108KXM035M     | 0.1989                        | 0.018/0.045                     | 2770  | 12.5x25       |
| 35   | 1200             | 128KXM035M     | 0.1658                        | 0.016/0.041                     | 3290  | 12.5x30       |
| 35   | 1500             | 158KXM035M     | 0.1326                        | 0.015/0.039                     | 3400  | 12.5x35       |
| 35   | 1500             | 158KXM035MQV   | 0.1326                        | 0.04/0.079                      | 2700  | 16x25         |
| 35   | 1800             | 188KXM035M     | 0.1105                        | 0.016/0.043                     | 3460  | 16x25         |
| 35   | 2200             | 228KXM035M     | 0.0904                        | 0.031/0.077                     | 2880  | 16x30         |
| 35   | 3300             | 338KXM035M     | 0.0603                        | 0.026/0.064                     | 3650  | 18x35         |
| 50   | 4.7              | 475KXM050M     | 35.2737                       | 1.699/5.096                     | 80  | 5x11          |
| 50   | 10               | 106KXM050M     | 16.579                        | 0.55/3.992                      | 240   | 5x11          |
| 50   | 22               | 226KXM050M     | 7.5357                        | 0.34/1.18                       | 238   | 5x11          |
| 50   | 33               | 336KXM050M     | 5.0238                        | 0.564/1.411                     | 230   | 6.3x11        |
| 50   | 47               | 476KXM050M     | 3.5274                        | 0.24/1.132                      | 320   | 6.3x11        |
| 50   | 56               | 566KXM050M     | 2.9605                        | 0.14/0.5                        | 385   | 6.3x11        |
| 50   | 68               | 686KXM050M     | 2.438                         | 0.352/0.88                      | 380   | 8x11.5        |
| 50   | 100              | 107KXM050M     | 1.6579                        | 0.1/0.24                        | 610   | 8x11.5        |
| 50   | 120              | 127KXM050M     | 1.3816                        | 0.061/0.18                      | 950   | 8x15          |
| 50   | 150              | 157KXM050M     | 1.1052                        | 0.061/0.18                      | 979   | 10x12.5       |
| 50   | 180              | 187KXM050M     | 0.921                         | 0.046/0.14                      | 1190  | 8x20          |
| 50   | 220              | 227KXM050M     | 0.7536                        | 0.06/0.12                       | 1136  | 10x16         |
| 50   | 270              | 277KXM050M     | 0.614                         | 0.03/0.09                       | 1580  | 10x20         |
| 50   | 330              | 337KXM050M     | 0.5024                        | 0.028/0.085                     | 1870  | 10x25         |
| 50   | 470              | 477KXM050M     | 0.3527                        | 0.035/0.068                     | 1900  | 12.5x20       |
| 50   | 560              | 567KXM050M     | 0.296                         | 0.023/0.059                     | 2410  | 12.5x25       |
| 50   | 680              | 687KXM050M     | 0.2438                        | 0.021/0.052                     | 2860  | 12.5x30       |
| 50   | 820              | 827KXM050M     | 0.2022                        | 0.019/0.023                     | 3960  | 12.5x35       |
| 50   | 1000             | 108KXM050M     | 0.1658                        | 0.021/0.056                     | 2850  | 16x25         |
| 50   | 1200             | 128KXM050M     | 0.1382                        | 0.042/0.083                     | 2710  | 16x30         |
| 50   | 1500             | 158KXM050M     | 0.1326                        | 0.035/0.071                     | 3010  | 16x35         |
| 50   | 2200             | 228KXM050M     | 0.1055                        | 0.027/0.055                     | 3690  | 18x35         |
| 50   | 3300             | 338KXM050M     | 0.0804                        | 0.023/0.046                     | 4350  | 18x40         |
| 63   | 10               | 106KXM063M     | 16.579                        | 1.08/2.16                       | 137   | 5x11          |
| 63   | 12               | 126KXM063M     | 11.0524                       | 0.95/1.9                        | 148   | 5x11          |
| 63   | 15               | 156KXM063M     | 8.842                         | 0.75/1.5                        | 185   | 6.3x11        |
| 63   | 18               | 186KXM063M     | 7.3683                        | 0.64/1.28                       | 198   | 6.3x11        |

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# KXM



**+105°C, High Voltage Low Impedance Long Life, 5000 hours**

| WVDC | Capacitance (μF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Impedance Ω +20°C/-10°C, 100kHz | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxDL (mm) |
|------|------------------|----------------|-------------------------------|---------------------------------|---|----------------|
| 63   | 22               | 226KXM063M     | 7.5357                        | 0.5/1.06                        | 250   | 6.3x11         |
| 63   | 27               | 276KXM063M     | 6.1402                        | 0.43/0.86                       | 240   | 6.3x11         |
| 63   | 33               | 336KXM063M     | 5.0238                        | 0.36/0.72                       | 308   | 6.3x15         |
| 63   | 39               | 396KXM063M     | 4.2509                        | 0.31/0.62                       | 325   | 6.3x15         |
| 63   | 47               | 476KXM063M     | 3.5274                        | 0.22/0.81                       | 480   | 8x11.5         |
| 63   | 56               | 566KXM063MJP   | 2.9605                        | 0.22/0.44                       | 460   | 8x16           |
| 63   | 56               | 566KXM063M     | 2.9605                        | 0.24/0.48                       | 445   | 10x12.5        |
| 63   | 68               | 686KXM063MJP   | 2.438                         | 0.18/0.36                       | 510   | 8x16           |
| 63   | 68               | 686KXM063M     | 2.438                         | 0.2/0.4                         | 500   | 10x12.5        |
| 63   | 82               | 826KXM063MJU   | 2.0218                        | 0.17/0.34                       | 600   | 8x20           |
| 63   | 82               | 826KXM063M     | 2.0218                        | 0.16/0.32                       | 580   | 10x15          |
| 63   | 100              | 107KXM063M     | 1.6579                        | 0.13/0.26                       | 748   | 10x20          |
| 63   | 100              | 107KXM063MNP   | 1.6579                        | 0.15/0.3                        | 700   | 12.5x15        |
| 63   | 120              | 127KXM063M     | 1.3816                        | 0.11/0.22                       | 820   | 10x20          |
| 63   | 120              | 127KXM063MNP   | 1.3816                        | 0.125/0.15                      | 755   | 12.5x15        |
| 63   | 150              | 157KXM063M     | 1.1052                        | 0.092/0.184                     | 940   | 10x25          |
| 63   | 150              | 157KXM063MNP   | 1.1052                        | 0.095/0.19                      | 847   | 12.5x15        |
| 63   | 180              | 187KXM063M     | 0.921                         | 0.077/0.154                     | 1100  | 10x30          |
| 63   | 180              | 187KXM063MQP   | 0.921                         | 0.082/0.164                     | 1025  | 16x15          |
| 63   | 220              | 227KXM063M     | 0.6029                        | 0.067/0.134                     | 1145  | 12.5x20        |
| 63   | 220              | 227KXM063MQP   | 0.6029                        | 0.072/0.144                     | 1125  | 16x15          |
| 63   | 270              | 277KXM063M     | 0.614                         | 0.056/0.112                     | 1350  | 12.5x25        |
| 63   | 270              | 277KXM063MRP   | 0.614                         | 0.06/0.12                       | 1300  | 18x15          |
| 63   | 330              | 337KXM063M     | 0.5024                        | 0.05/0.1                        | 1425  | 12.5x25        |
| 63   | 330              | 337KXM063MRP   | 0.5024                        | 0.051/0.102                     | 1400  | 18x15          |
| 63   | 390              | 397KXM063M     | 0.4251                        | 0.044/0.088                     | 1625  | 12.5x30        |
| 63   | 390              | 397KXM063MQU   | 0.4251                        | 0.047/0.094                     | 1500  | 16x20          |
| 63   | 470              | 477KXM063M     | 0.3527                        | 0.04/0.08                       | 1785  | 12.5x35        |
| 63   | 470              | 477KXM063MQV   | 0.3527                        | 0.042/0.084                     | 1700  | 16x25          |
| 63   | 560              | 567KXM063M     | 0.296                         | 0.036/0.072                     | 1950  | 12.5x40        |
| 63   | 560              | 567KXM063MRU   | 0.296                         | 0.04/0.08                       | 1725  | 18x20          |
| 63   | 680              | 687KXM063M     | 0.195                         | 0.033/0.066                     | 2050  | 16x30          |
| 63   | 680              | 687KXM063MRV   | 0.195                         | 0.036/0.072                     | 1950  | 18x25          |
| 63   | 820              | 827KXM063M     | 0.2022                        | 0.03/0.06                       | 2225  | 16x35          |
| 63   | 820              | 827KXM063MRW   | 0.2022                        | 0.032/0.064                     | 2100  | 18x30          |
| 63   | 1000             | 108KXM063M     | 0.1658                        | 0.028/0.056                     | 2375  | 16x40          |
| 63   | 1000             | 108KXM063MRY   | 0.1658                        | 0.03/0.06                       | 2280  | 18x35          |
| 63   | 1200             | 128KXM063M     | 0.1243                        | 0.026/0.052                     | 2500  | 18x40          |
| 100  | 1                | 105KXM100M     | 132.629                       | 17/46                           | 26  | 5x11           |
| 100  | 1.5              | 155KXM100M     | 88.419                        | 10/27                           | 33  | 5x11           |
| 100  | 2.2              | 225KXM100M     | 75.3575                       | 6.8/18.36                       | 45  | 5x11           |
| 100  | 3.3              | 335KXM100M     | 40.191                        | 4.15/11.205                     | 55  | 5x11           |

| WVDC | Capacitance (μF) | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Impedance Ω +20°C/-10°C, 100kHz | Maximum RMS Ripple Current (mA) 100 kHz, +105°C | Dims DxDL (mm) |
|------|------------------|----------------|-------------------------------|---------------------------------|---|----------------|
| 100  | 4.7              | 475KXM100M     | 35.2737                       | 3/8.1                           | 70  | 6.3x11         |
| 100  | 6.8              | 685KXM100M     | 24.38                         | 2/5.4                           | 85  | 6.3x11         |
| 100  | 10               | 106KXM100M     | 16.579                        | 1/3.375                         | 150   | 6.3x15         |
| 100  | 12               | 126KXM100M     | 11.0524                       | 1/2.7                           | 115   | 6.3x11         |
| 100  | 15               | 156KXM100M     | 8.842                         | 0.82/2.214                      | 132   | 6.3x15         |
| 100  | 18               | 186KXM100M     | 7.3683                        | 0.39/1.863                      | 155   | 6.3x15         |
| 100  | 22               | 226KXM100M     | 7.5357                        | 0.8/1.54                        | 370   | 8x11.5         |
| 100  | 27               | 276KXM100MJP   | 6.1402                        | 0.48/1.3                        | 280   | 8x16           |
| 100  | 27               | 276KXM100M     | 6.1402                        | 0.05/1.4                        | 270   | 10x12.5        |
| 100  | 33               | 336KXM100MJP   | 5.0238                        | 0.4/1.08                        | 300   | 8x16           |
| 100  | 33               | 336KXM100M     | 5.0238                        | 0.44/1.19                       | 295   | 10x12.5        |
| 100  | 39               | 396KXM100MJU   | 4.2509                        | 0.34/0.92                       | 350   | 8x20           |
| 100  | 39               | 396KXM100M     | 4.2509                        | 0.38/1.03                       | 340   | 10x15          |
| 100  | 47               | 476KXM100M     | 3.5274                        | 0.3/0.81                        | 420   | 10x20          |
| 100  | 47               | 476KXM100MNP   | 3.5274                        | 0.33/0.89                       | 400   | 12.5x15        |
| 100  | 56               | 566KXM100M     | 2.9605                        | 0.25/0.675                      | 455   | 10x20          |
| 100  | 56               | 566KXM100MNP   | 2.9605                        | 0.29/0.78                       | 430   | 12.5x15        |
| 100  | 68               | 686KXM100M     | 2.438                         | 0.22/0.594                      | 530   | 10x25          |
| 100  | 68               | 686KXM100MNP   | 2.438                         | 0.25/0.675                      | 465   | 12.5x15        |
| 100  | 82               | 826KXM100M     | 2.0218                        | 0.2/0.54                        | 610   | 10x30          |
| 100  | 82               | 826KXM100MQP   | 2.0218                        | 0.21/0.567                      | 680   | 16x15          |
| 100  | 100              | 107KXM100M     | 1.6579                        | 0.16/0.432                      | 660   | 10x30          |
| 100  | 100              | 107KXM100MQP   | 1.6579                        | 0.18/0.486                      | 715   | 16x15          |
| 100  | 120              | 127KXM100M     | 1.3816                        | 0.135/0.351                     | 770   | 12.5x25        |
| 100  | 120              | 127KXM100MQP   | 1.3816                        | 0.15/0.405                      | 795   | 16x15          |
| 100  | 150              | 157KXM100M     | 1.1052                        | 0.12/0.324                      | 800   | 12.5x25        |
| 100  | 150              | 157KXM100MRP   | 1.1052                        | 0.13/0.351                      | 915   | 18x15          |
| 100  | 180              | 187KXM100M     | 0.921                         | 0.1/0.27                        | 900   | 12.5x30        |
| 100  | 180              | 187KXM100MQU   | 0.921                         | 0.11/0.3                        | 995   | 16x20          |
| 100  | 220              | 227KXM100M     | 0.6029                        | 0.088/0.238                     | 1000  | 12.5x35        |
| 100  | 220              | 227KXM100MQV   | 0.6029                        | 0.094/0.254                     | 1150  | 16x25          |
| 100  | 270              | 277KXM100M     | 0.614                         | 0.074/0.2                       | 1110  | 12.5x40        |
| 100  | 270              | 277KXM100MRU   | 0.614                         | 0.082/0.221                     | 1225  | 18x20          |
| 100  | 330              | 337KXM100M     | 0.5024                        | 0.065/0.176                     | 1520  | 16x30          |
| 100  | 330              | 337KXM100MRV   | 0.5024                        | 0.072/0.194                     | 1425  | 18x25          |
| 100  | 390              | 397KXM100M     | 0.4251                        | 0.055/0.149                     | 1725  | 16x35          |
| 100  | 390              | 397KXM100MRW   | 0.4251                        | 0.063/0.17                      | 1600  | 18x30          |
| 100  | 470              | 477KXM100M     | 0.3527                        | 0.049/0.132                     | 1920  | 16x40          |
| 100  | 470              | 477KXM100MRY   | 0.3527                        | 0.056/0.157                     | 1775  | 18x35          |
| 100  | 560              | 567KXM100M     | 0.296                         | 0.043/0.116                     | 2050  | 18x35          |
| 100  | 680              | 687KXM100M     | 0.195                         | 0.038/0.103                     | 2300  | 18x40          |

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