

# Radial Leaded Aluminum Conductive Polymer Electrolytic Capacitors

## RPF Series



### FEATURES

- Long life time, low ESR
- Endurance: 5000 hours at 105°C
- RoHS Compliance and Halogen-free

### APPLICATIONS

- System board, graphic cards
- DC/DC Converter, game console, servers

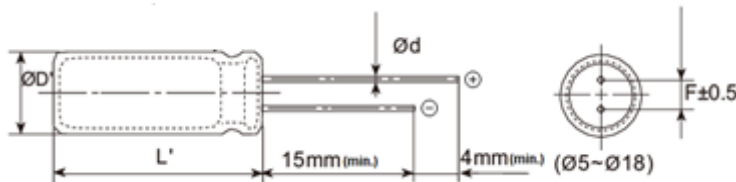


### HOW TO ORDER

| R                               | PF                 | 0811                                | 681   | M                            | 010  | K  | -   |
|---------------------------------|--------------------|-------------------------------------|---|------------------------------|--|--|---|
| <b>Product Type</b><br>Aluminum | <b>Series Type</b> | <b>Case Size</b><br>See table below | <b>Capacitance Code</b><br>µF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow) | <b>Tolerance</b><br>M = ±20% | <b>Rated DC Voltage</b><br>006 = 6.3Vdc 050 = 50Vdc<br>010 = 10Vdc 063 = 63Vdc<br>016 = 16Vdc 080 = 80Vdc<br>025 = 25Vdc 100 = 100Vdc<br>035 = 35Vdc | <b>Packaging</b><br>K = Ammo Pack<br>B = Bulk Pack | <b>Lead Type</b><br>" " empty = Standard long lead<br>"C" = Lead cut only<br>"F" = Lead cut and form<br>"L" = Lead cut and bend (Left)<br>"R" = Lead cut and bend (Right) |

### CASE DIMENSIONS millimeters (inches)

| Code | D'-0.30<br>(0.012)<br>+0.50<br>(0.020) | L'-0.50<br>(0.020)<br>+1.00<br>(0.039) | d±0.05<br>(0.002) | F±0.50<br>(0.020) | Typical Weight<br>(g) | Code | D'-0.30<br>(0.012)<br>+0.50<br>(0.020) | L'-0.50<br>(0.020)<br>+1.00<br>(0.039) | d±0.05<br>(0.002) | F±0.50<br>(0.020) | Typical Weight<br>(g) |
|------|--|--|-------------------|-------------------|-----------------------|------|--|--|-------------------|-------------------|-----------------------|
| 0507 | 5.00 (0.197)                           | 7.00 (0.276)                           | 0.50 (0.020)      | 2.00 (0.079)      | 0.28                  | 0811 | 8.00 (0.315)                           | 11.00 (0.433)                          | 0.60 (0.024)      | 3.50 (0.138)      | 0.82                  |
| 0508 | 5.00 (0.197)                           | 8.00 (0.315)                           | 0.50 (0.020)      | 2.00 (0.079)      | 0.30                  | 0813 | 8.00 (0.315)                           | 13.00 (0.512)                          | 0.60 (0.024)      | 3.50 (0.138)      | 0.91                  |
| 0509 | 5.00 (0.197)                           | 9.00 (0.354)                           | 0.50 (0.020)      | 2.00 (0.079)      | 0.34                  | 0814 | 8.00 (0.315)                           | 14.00 (0.551)                          | 0.60 (0.024)      | 3.50 (0.138)      | 1.05                  |
| 0510 | 5.00 (0.197)                           | 10.00 (0.394)                          | 0.50 (0.020)      | 2.00 (0.079)      | 0.38                  | 0816 | 8.00 (0.315)                           | 16.00 (0.630)                          | 0.60 (0.024)      | 3.50 (0.138)      | 1.14                  |
| 5509 | 5.50 (0.217)                           | 9.00 (0.354)                           | 0.50 (0.020)      | 2.50 (0.098)      | 0.38                  | 1012 | 10.00 (0.394)                          | 12.00 (0.472)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.22                  |
| 0605 | 6.30 (0.248)                           | 5.00 (0.197)                           | 0.50 (0.020)      | 2.50 (0.098)      | 0.31                  | 1013 | 10.00 (0.394)                          | 13.00 (0.512)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.35                  |
| 0607 | 6.30 (0.248)                           | 7.00 (0.276)                           | 0.50 (0.020)      | 2.50 (0.098)      | 0.37                  | 1014 | 10.00 (0.394)                          | 14.00 (0.551)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.55                  |
| 0608 | 6.30 (0.248)                           | 8.00 (0.315)                           | 0.50 (0.020)      | 2.50 (0.098)      | 0.42                  | 1015 | 10.00 (0.394)                          | 15.00 (0.591)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.62                  |
| 0609 | 6.30 (0.248)                           | 9.00 (0.354)                           | 0.50 (0.020)      | 2.50 (0.098)      | 0.45                  | 1016 | 10.00 (0.394)                          | 16.00 (0.630)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.74                  |
| 0610 | 6.30 (0.248)                           | 10.00 (0.394)                          | 0.50 (0.020)      | 2.50 (0.098)      | 0.54                  | 1017 | 10.00 (0.394)                          | 17.00 (0.669)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.88                  |
| 0611 | 6.30 (0.248)                           | 11.00 (0.433)                          | 0.50 (0.020)      | 2.50 (0.098)      | 0.58                  | 1018 | 10.00 (0.394)                          | 18.00 (0.709)                          | 0.60 (0.024)      | 5.00 (0.197)      | 1.93                  |
| 0809 | 8.00 (0.315)                           | 9.00 (0.354)                           | 0.60 (0.024)      | 3.50 (0.138)      | 0.67                  |      |  |  |                   |                   |                       |



\*If different rubber seal is needed, please contact your sales representative.

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## RPF Series

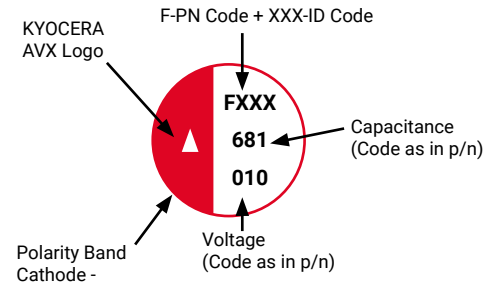


### TECHNICAL SPECIFICATIONS

|                                    |   |  |
|------------------------------------|---|--|
| <b>Category Temperature Range:</b> | -55°C to +105°C                                   |  |
| <b>Capacitance Range</b>           | At 25°C, 120Hz                                    | 4.7μF to 3300μF  |
| <b>Capacitance Tolerance:</b>      | At 25°C, 120Hz                                    | ±20%   |
| <b>Dissipation Factor (%)</b>      | Measurement Frequency: 120Hz at 25°C              | Please see the ratings and part number reference table below |
| <b>Leakage Current:</b>            | After 2 minutes at rated working voltage at 25°C* | $I \leq 0.2CV$ or 500μA, whichever is greater                |

\* Note: In the case of an anomalous reading, re-measure the leakage current after following voltage treatment: Voltage treatment: DC rated voltage to be applied to the capacitors for 120 minutes at 105°C.

### MARKING



### CAPACITANCE AND RATED VOLTAGE RANGE (FIGURES DENOTES CASE SIZE)

| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) |              |              |              |              |      |      |      |      |
|-------------|------|------------------------------------|--------------|--------------|--------------|--------------|------|------|------|------|
| μF          | Code | 6.3V                               | 10V          | 16V          | 25V          | 35V          | 50V  | 63V  | 80V  | 100V |
| 4.7         | 4R7  |                                    |              |              |              |              |      |      |      | 0608 |
| 10          | 100  |                                    |              |              |              | 0508         | 0508 | 0605 |      | 0610 |
| 15          | 150  |                                    |              |              |              |              |      |      |      | 0811 |
| 22          | 220  |                                    |              |              |              | 0509         | 0607 |      | 0610 |      |
| 33          | 330  |                                    |              |              |              | 0509         | 0607 | 0608 | 0811 | 1014 |
| 47          | 470  |                                    |              |              |              | 0607         | 0608 | 0609 | 1012 |      |
| 56          | 560  |                                    |              |              |              |              | 0608 | 0809 |      |      |
| 68          | 680  |                                    |              |              |              | 0607         | 0610 | 0811 |      |      |
| 82          | 820  |                                    |              |              |              |              |      | 0811 |      |      |
| 100         | 101  |                                    |              | 0605         |              | 0608<br>0811 | 0811 | 1012 | 1014 |      |
| 150         | 151  |                                    |              |              | 0610         |              |      | 1012 |      |      |
| 180         | 181  |                                    |              |              | 0809         |              |      |      |      |      |
| 220         | 221  | 0507                               | 0509<br>0608 |              | 0811         | 0811<br>1012 | 1012 | 1015 |      |      |
| 270         | 271  | 0507                               |              | 0608<br>0809 | 0811         |              | 1013 | 1017 |      |      |
| 330         | 331  | 0508<br>0605<br>0608               | 0608         | 5509         | 0811         | 1012         | 1015 | 1018 |      |      |
| 390         | 391  | 0509                               |              |              |              |              |      |      |      |      |
| 470         | 471  | 0510<br>0608                       | 0608         | 0611         | 0811<br>1012 | 1013         | 1018 |      |      |      |
| 560         | 561  | 5509<br>0608                       | 0610         |              |              |              |      |      |      |      |
| 680         | 681  | 5509<br>0609<br>0809               | 0811         | 1012<br>0811 |              | 1016         |      |      |      |      |
| 820         | 821  | 0609                               | 0811         | 0813         | 0816<br>1018 | 1018         |      |      |      |      |
| 1000        | 102  | 0610<br>0809<br>0811               |              |              |              | 1018         |      |      |      |      |
| 1200        | 122  | 0811                               |              |              |              |              |      |      |      |      |
| 1500        | 152  | 0811<br>1012                       |              |              |              |              |      |      |      |      |
| 2200        | 222  | 0814                               |              |              |              |              |      |      |      |      |
| 3300        | 332  | 1014                               |              |              |              |              |      |      |      |      |

Released ratings



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TDS-ALUM-0019 | Rev 10

– ALUMINUM CAPACITORS –

# Radial Leaded Aluminum Conductive Polymer Electrolytic Capacitors

## RPF Series



### RATINGS & PART NUMBER REFERENCE

| Part No.        | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL Max. (µA) | DF Max. (%) | ESR Max. @100kHz (mΩ) | 100kHz RMS Current (mA) | MSL |
|-----------------|-----------|------------------|-------------------|---------------|-------------|-----------------------|-------------------------|-----|
| <b>6.3 Volt</b> |           |                  |                   |               |             |                       |                         |     |
| RPF0507221M006* | 5007      | 220              | 6.3               | 500           | 8           | 22                    | 3100                    | 1   |
| RPF0507271M006* | 0507      | 270              | 6.3               | 500           | 8           | 22                    | 3400                    | 1   |
| RPF0508331M006* | 0508      | 330              | 6.3               | 500           | 8           | 22                    | 3600                    | 1   |
| RPF0605331M006* | 0605      | 330              | 6.3               | 500           | 8           | 27                    | 2800                    | 1   |
| RPF0608331M006* | 0608      | 330              | 6.3               | 500           | 8           | 16                    | 3600                    | 1   |
| RPF0509391M006* | 0509      | 390              | 6.3               | 500           | 8           | 22                    | 3600                    | 1   |
| RPF0510471M006* | 0510      | 470              | 6.3               | 592           | 8           | 22                    | 3800                    | 1   |
| RPF0608471M006* | 0608      | 470              | 6.3               | 592           | 8           | 16                    | 3900                    | 1   |
| RPF5509561M006* | 5509      | 560              | 6.3               | 706           | 8           | 22                    | 3800                    | 1   |
| RPF0608561M006* | 0608      | 560              | 6.3               | 706           | 8           | 22                    | 4300                    | 1   |
| RPF5509681M006* | 5509      | 680              | 6.3               | 857           | 8           | 22                    | 4300                    | 1   |
| RPF0609681M006* | 0609      | 680              | 6.3               | 857           | 8           | 22                    | 4500                    | 1   |
| RPF0809681M006* | 0809      | 680              | 6.3               | 857           | 8           | 22                    | 4100                    | 1   |
| RPF0609821M006* | 0609      | 820              | 6.3               | 1033          | 8           | 22                    | 4500                    | 1   |
| RPF0610102M006* | 0610      | 1000             | 6.3               | 1260          | 8           | 11                    | 4600                    | 1   |
| RPF0809102M006* | 0809      | 1000             | 6.3               | 1260          | 8           | 13                    | 4300                    | 1   |
| RPF0811102M006* | 0811      | 1000             | 6.3               | 1260          | 8           | 11                    | 4600                    | 1   |
| RPF0811122M006* | 0811      | 1200             | 6.3               | 1512          | 8           | 11                    | 4700                    | 1   |
| RPF0811152M006* | 0811      | 1500             | 6.3               | 1890          | 8           | 11                    | 4800                    | 1   |
| RPF1012152M006* | 1012      | 1500             | 6.3               | 1890          | 8           | 11                    | 4900                    | 1   |
| RPF0814222M006* | 0814      | 2200             | 6.3               | 2772          | 8           | 11                    | 5100                    | 1   |
| RPF1014332M006* | 1014      | 3300             | 6.3               | 4158          | 8           | 11                    | 5300                    | 1   |
| <b>10 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0509221M010* | 0509      | 220              | 10                | 500           | 12          | 22                    | 2500                    | 1   |
| RPF0608221M010* | 0608      | 220              | 10                | 500           | 12          | 16                    | 2800                    | 1   |
| RPF0608331M010* | 0608      | 330              | 10                | 660           | 12          | 22                    | 2900                    | 1   |
| RPF0608471M010* | 0608      | 470              | 10                | 940           | 12          | 22                    | 3100                    | 1   |
| RPF0610561M010* | 0610      | 560              | 10                | 1120          | 12          | 14                    | 3200                    | 1   |
| RPF0811681M010* | 0811      | 680              | 10                | 1360          | 12          | 13                    | 3500                    | 1   |
| RPF0811821M010* | 0811      | 820              | 10                | 1640          | 12          | 13                    | 3600                    | 1   |
| <b>16 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0605101M016* | 0605      | 100              | 16                | 500           | 12          | 27                    | 1800                    | 1   |
| RPF0608271M016* | 0608      | 270              | 16                | 864           | 12          | 22                    | 2500                    | 1   |
| RPF0809271M016* | 0809      | 270              | 16                | 864           | 12          | 22                    | 2600                    | 1   |
| RPF5509331M016* | 5509      | 330              | 16                | 1056          | 12          | 22                    | 2600                    | 1   |
| RPF1012681M016* | 1012      | 680              | 16                | 2176          | 12          | 13                    | 3200                    | 1   |
| RPF0813821M016* | 0813      | 820              | 16                | 2624          | 12          | 12                    | 3100                    | 1   |
| RPF0611471M016* | 0611      | 470              | 16                | 1504          | 12          | 16                    | 2800                    | 1   |
| RPF0811681M016* | 0811      | 680              | 16                | 2176          | 12          | 16                    | 3000                    | 1   |
| <b>25 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0610151M025* | 0610      | 150              | 25                | 750           | 12          | 22                    | 2500                    | 1   |
| RPF0809181M025* | 0809      | 180              | 25                | 900           | 12          | 33                    | 2200                    | 1   |
| RPF0811221M025* | 0811      | 220              | 25                | 1100          | 12          | 22                    | 2700                    | 1   |
| RPF0811271M025* | 0811      | 270              | 25                | 1350          | 12          | 22                    | 2700                    | 1   |
| RPF0811331M025* | 0811      | 330              | 25                | 1650          | 12          | 22                    | 2700                    | 1   |
| RPF0811471M025* | 0811      | 470              | 25                | 2350          | 12          | 22                    | 2700                    | 1   |
| RPF1012471M025* | 1012      | 470              | 25                | 2350          | 12          | 22                    | 3600                    | 1   |
| RPF0816821M025* | 0816      | 820              | 25                | 4100          | 12          | 22                    | 3200                    | 1   |
| RPF1018821M025* | 1018      | 820              | 25                | 4100          | 12          | 22                    | 4000                    | 1   |
| <b>35 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0508100M035* | 0508      | 10               | 35                | 500           | 12          | 66                    | 1600                    | 1   |
| RPF0509220M035* | 0509      | 22               | 35                | 500           | 12          | 110                   | 1700                    | 1   |
| RPF0509330M035* | 0509      | 33               | 35                | 500           | 12          | 55                    | 1800                    | 1   |
| RPF0607470M035* | 0607      | 47               | 35                | 500           | 12          | 55                    | 1800                    | 1   |
| RPF0607680M035* | 0607      | 68               | 35                | 500           | 12          | 55                    | 1900                    | 1   |
| RPF0608101M035* | 0608      | 100              | 35                | 700           | 12          | 55                    | 2100                    | 1   |
| RPF0811101M035* | 0811      | 100              | 35                | 700           | 12          | 44                    | 2300                    | 1   |
| RPF0811221M035* | 0811      | 220              | 35                | 1540          | 12          | 44                    | 2500                    | 1   |
| RPF1012221M035* | 1012      | 220              | 35                | 1540          | 12          | 33                    | 2600                    | 1   |

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## RPF Series



| Part No.        | Case Size | Capacitance (μF) | Rated Voltage (V) | DCL Max. (μA) | DF Max. (%) | ESR Max. @100kHz (mΩ) | 100kHz RMS Current (mA) | MSL |
|-----------------|-----------|------------------|-------------------|---------------|-------------|-----------------------|-------------------------|-----|
| RPF1012331M035* | 1012      | 330              | 35                | 2310          | 12          | 33                    | 2700                    | 1   |
| RPF1013471M035* | 1013      | 470              | 35                | 3290          | 12          | 22                    | 2800                    | 1   |
| RPF1016681M035* | 1016      | 680              | 35                | 4760          | 12          | 22                    | 3000                    | 1   |
| RPF1018821M035* | 1018      | 820              | 35                | 5000          | 12          | 22                    | 3100                    | 1   |
| RPF1018102M035* | 1018      | 1000             | 35                | 5000          | 12          | 22                    | 3300                    | 1   |
| <b>50 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0508100M050* | 0508      | 10               | 50                | 500           | 12          | 77                    | 1400                    | 1   |
| RPF0607220M050* | 0607      | 22               | 50                | 500           | 12          | 44                    | 1700                    | 1   |
| RPF0607330M050* | 0607      | 33               | 50                | 500           | 12          | 44                    | 1800                    | 1   |
| RPF0608470M050* | 0608      | 47               | 50                | 500           | 12          | 38                    | 1800                    | 1   |
| RPF0608560M050* | 0608      | 56               | 50                | 560           | 12          | 38                    | 1900                    | 1   |
| RPF0610680M050* | 0610      | 68               | 50                | 680           | 12          | 33                    | 1900                    | 1   |
| RPF0811101M050* | 0811      | 100              | 50                | 1000          | 12          | 33                    | 2000                    | 1   |
| RPF1012221M050* | 1012      | 220              | 50                | 2200          | 12          | 33                    | 2400                    | 1   |
| RPF1013271M050* | 1013      | 270              | 50                | 2700          | 12          | 22                    | 2600                    | 1   |
| RPF1015331M050* | 1015      | 330              | 50                | 3300          | 12          | 22                    | 2700                    | 1   |
| RPF1018471M050* | 1018      | 470              | 50                | 4700          | 12          | 22                    | 2800                    | 1   |
| <b>63 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0605100M063* | 0605      | 10               | 63                | 500           | 12          | 66                    | 1400                    | 1   |
| RPF0608330M063* | 0608      | 33               | 63                | 500           | 12          | 33                    | 1500                    | 1   |
| RPF0609470M063* | 0609      | 47               | 63                | 592           | 12          | 33                    | 1700                    | 1   |
| RPF0809560M063* | 0809      | 56               | 63                | 706           | 12          | 33                    | 1600                    | 1   |
| RPF0811680M063* | 0811      | 68               | 63                | 857           | 12          | 33                    | 1800                    | 1   |
| RPF0811820M063* | 0811      | 82               | 63                | 1033          | 12          | 33                    | 1800                    | 1   |
| RPF1012101M063* | 1012      | 100              | 63                | 1260          | 12          | 33                    | 1900                    | 1   |
| RPF1012151M063* | 1012      | 150              | 63                | 1890          | 12          | 33                    | 2200                    | 1   |
| RPF1015221M063* | 1015      | 220              | 63                | 2772          | 12          | 22                    | 2300                    | 1   |
| RPF1017271M063* | 1017      | 270              | 63                | 3402          | 12          | 22                    | 2500                    | 1   |
| RPF1018331M063* | 1018      | 330              | 63                | 4158          | 12          | 22                    | 2600                    | 1   |
| <b>80 Volt</b>  |           |                  |                   |               |             |                       |                         |     |
| RPF0610220M080* | 0610      | 22               | 80                | 500           | 12          | 66                    | 1400                    | 1   |
| RPF0811330M080* | 0811      | 33               | 80                | 528           | 12          | 38                    | 1500                    | 1   |
| RPF1012470M080* | 1012      | 47               | 80                | 752           | 12          | 38                    | 1600                    | 1   |
| RPF1014101M080* | 1014      | 100              | 80                | 1600          | 12          | 38                    | 1800                    | 1   |
| <b>100 Volt</b> |           |                  |                   |               |             |                       |                         |     |
| RPF06084R7M100* | 0608      | 4.7              | 100               | 500           | 15          | 132                   | 1200                    | 1   |
| RPF0610100M100* | 0610      | 10               | 100               | 500           | 15          | 55                    | 1300                    | 1   |
| RPF0811150M100* | 0811      | 15               | 100               | 500           | 15          | 55                    | 1300                    | 1   |
| RPF1014330M100* | 1014      | 33               | 100               | 600           | 15          | 38                    | 1400                    | 1   |

\* Used to denote packing type: "K" for Ammo Pack or "B" for Bulk.

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2 volts. DCL is measured at rated voltage after 2 minutes

## QUALIFICATION TABLE

| Test   | RPF Series (Temperature Range -55°C to +105°C)  |                           |                                       |
|--|---|---------------------------|---------------------------------------|
|  | Condition   | Characteristics           |                                       |
| <b>Temperature Characteristics (Impedance Ratio at 100kHz)</b> | Z(+105°C)/Z(+20°C) ≤ 1.25<br>Z(-55°C)/Z(+20°C) ≤ 1.25   |                           |                                       |
| <b>Endurance</b>   | After applying rated voltage for 5000 hours at 105°C, the capacitors shall meet the following requirements.   | <b>Visual examination</b> | no visible damage                     |
|  |   | <b>ΔC/C</b>               | ≤ ±20% of the initial limit           |
|  |   | <b>DF:</b>                | ≤ 150% of the initial specified limit |
|  |   | <b>ESR:</b>               | ≤ 150% of the initial specified limit |
| <b>DCL:</b>  | ≤ Initial specified limit   |                           |                                       |
| <b>Humidity Test</b>   | After subjecting to 90-95%RH for 2000 hours at 60°C without voltage applied, the capacitors shall meet the specified values for the Endurance characteristics listed above.   |                           |                                       |
| <b>Surge Test</b>  | After subjecting to 1000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements. | <b>Visual examination</b> | no visible damage                     |
|  |   | <b>ΔC/C</b>               | ≤ ±20% of the initial limit           |
|  |   | <b>DF:</b>                | ≤ 150% of the initial specified limit |
|  |   | <b>ESR:</b>               | ≤ 150% of the initial specified limit |
|  |   | <b>DCL:</b>               | ≤ Initial specified limit             |



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## RPF Series



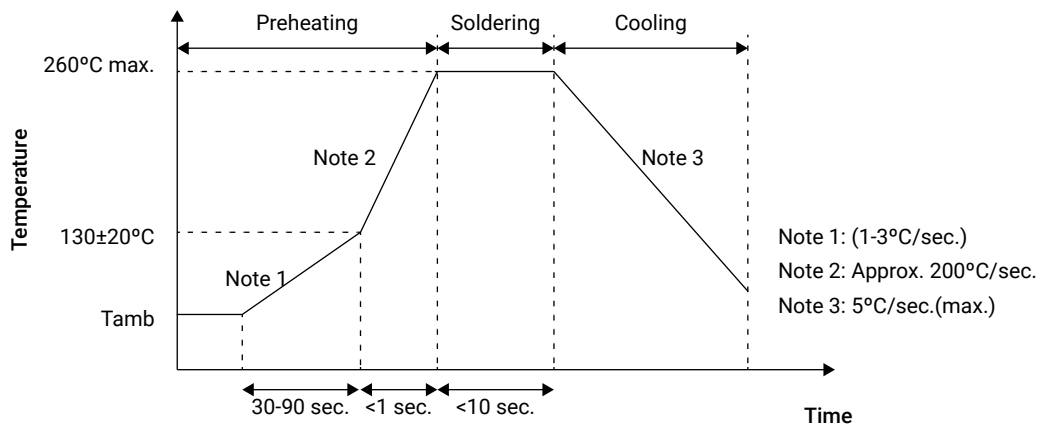
### SOLDERING

1. When soldering with a soldering iron:

- Soldering conditions (temperature and time) should be within the limits prescribed in the catalogs or the product specifications.
- If the terminal spacing of a capacitor does not fit the terminal hole spacing of the PC board, reform the terminals in a manner to minimize a mechanical stress into the body of the capacitor.
- Remove the capacitors from the PC board, after the solder is completely melted, reworking by using a soldering iron minimizes the mechanical stress to the capacitors.
- Do not touch the capacitor body with the hot tip of the soldering iron.

2. Flow Soldering:

- Do not dip the body of a capacitor into the solder bath, only dip the terminals in. The soldering must be done on the reverse side of PC board.
- Do not apply flux to any part of capacitors other than their terminals.
- Make sure the capacitors do not come into contact with any other components while soldering.
- Soldering conditions (preheat, solder temperature and dipping time) should be within the limits prescribed in the picture below.



### STORAGE

- Store with the temperature range between 5 to 35°C (If between 35 to 85°C, it should be less than three months), and the relative humidity of 75% without direct sunshine and store in the package states if possible.
- It is recommended that you open the bag just before use and use up as early as possible.
- Store the capacitors in places free from water, oil or salt water or in condensation status.
- Never store in any area filled with poisonous gases (including hydrogen sulfide, sulfurous acid, nitrous acid, chlorine and ammonia).
- Store the capacitors in places free from ozone, ultraviolet rays or radiation:  
(Radial Lead Type)  
Before unseal: within 1 year after delivery  
After opening: within 1 month

# Radial Leaded Aluminum Conductive Polymer Electrolytic Capacitors

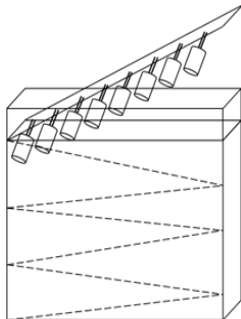
## RPF Series



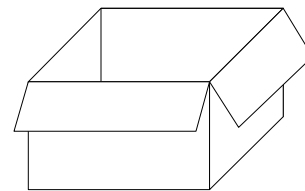
### PACKING

| Size Code | Bulk Pack |                        |                |                        |                | Ammo Pack |                |                    |             |              |
|-----------|-----------|------------------------|----------------|------------------------|----------------|-----------|----------------|--------------------|-------------|--------------|
|           | Bags      | Inner Box              |                | Carton                 |                | Inner Box |                | Carton             |             | Whole Pieces |
|           |           | (LxWxH)<br>290*216*158 |                | (LxWxH)<br>455*310*350 |                | Quantity  | Inner Box Size | Inner Box Quantity | Carton Size |              |
|           | Quantity  | Bags Number            | Quantity / pcs | Inner Box Number       | Quantity / pcs |           | (LxWxH)        |                    | (LxWxH)     |              |
| 0507      | 1000      | 15                     | 15,000         | 4                      | 60,000         | 2000      | 320x230x50     | 10                 | 485x345x275 | 20,000       |
| 0508      | 1000      | 12                     | 12,000         | 4                      | 48,000         | 2000      | 320x230x50     | 10                 | 485x345x275 | 20,000       |
| 0509      | 1000      | 12                     | 12,000         | 4                      | 48,000         | 2000      | 320x230x50     | 10                 | 485x345x275 | 20,000       |
| 0510      | 1000      | 12                     | 12,000         | 4                      | 48,000         | 2000      | 320x230x50     | 10                 | 485x345x275 | 20,000       |
| 5509      | 1000      | 12                     | 12,000         | 4                      | 48,000         | 2000      | 320x230x50     | 10                 | 485x345x275 | 20,000       |
| 0605      | 1000      | 10                     | 10,000         | 4                      | 40,000         | 2000      | 340x290x48     | 10                 | 600x354x265 | 20,000       |
| 0607      | 1000      | 10                     | 10,000         | 4                      | 40,000         | 2000      | 340x290x48     | 10                 | 600x354x265 | 20,000       |
| 0608      | 1000      | 8                      | 8000           | 4                      | 32,000         | 2000      | 340x290x48     | 10                 | 600x354x265 | 20,000       |
| 0609      | 1000      | 8                      | 8000           | 4                      | 32,000         | 2000      | 340x290x48     | 10                 | 600x354x265 | 20,000       |
| 0610      | 1000      | 8                      | 8000           | 4                      | 32,000         | 2000      | 340x290x48     | 10                 | 600x354x265 | 20,000       |
| 0611      | 1000      | 8                      | 8000           | 4                      | 32,000         | 2000      | 340x290x48     | 10                 | 600x354x265 | 20,000       |
| 0809      | 500       | 10                     | 5000           | 4                      | 20,000         | 950       | 320x230x50     | 6                  | 485x345x275 | 5700         |
| 0811      | 500       | 10                     | 5000           | 4                      | 20,000         | 950       | 320x230x50     | 6                  | 485x345x275 | 5700         |
| 0813      | 500       | 10                     | 5000           | 4                      | 20,000         | 950       | 320x230x50     | 10                 | 485x345x275 | 9500         |
| 0814      | 500       | 10                     | 5000           | 4                      | 20,000         | 950       | 320x230x50     | 6                  | 485x345x275 | 5700         |
| 0816      | 300       | 10                     | 3000           | 4                      | 12,000         | 950       | 320x230x55     | 6                  | 485x345x300 | 5700         |
| 1012      | 250       | 10                     | 2500           | 4                      | 10,000         | 600       | 320x230x50     | 6                  | 485x345x275 | 3600         |
| 1013      | 250       | 10                     | 2500           | 4                      | 10,000         | 600       | 320x230x50     | 6                  | 485x345x275 | 3600         |
| 1014      | 200       | 10                     | 2000           | 4                      | 8000           | 600       | 320x230x50     | 10                 | 485x345x275 | 6000         |
| 1015      | 200       | 10                     | 2000           | 4                      | 8000           | 600       | 320x230x55     | 10                 | 485x345x300 | 6000         |
| 1016      | 250       | 10                     | 2500           | 4                      | 10,000         | 600       | 320x230x55     | 6                  | 485x345x300 | 3600         |
| 1017      | 250       | 10                     | 2500           | 4                      | 10,000         | 600       | 320x230x55     | 10                 | 485x345x300 | 6000         |
| 1018      | 200       | 10                     | 2000           | 4                      | 8000           | 600       | 320x230x55     | 10                 | 485x345x300 | 6000         |

### AMMO PACKING



### BULK PACKING



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at [www.kyocera-avx.com/disclaimer/](http://www.kyocera-avx.com/disclaimer/) by reference and should be reviewed in full before placing any order.

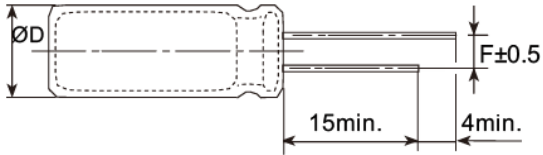
# Radial Leaded Aluminum Conductive Polymer Electrolytic Capacitors

## RPF Series

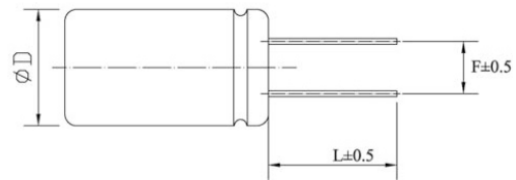


### TERMINATION TYPE

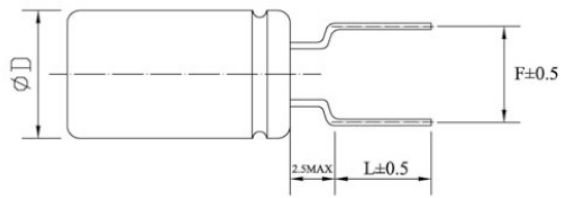
Letter " ": Empty = Standard Long lead.



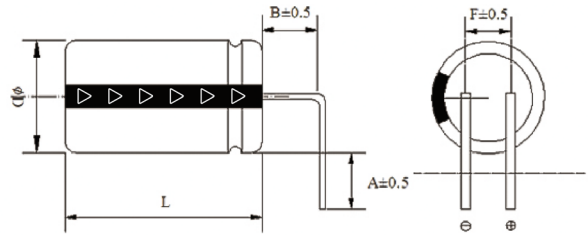
Letter "C": Lead cut only.



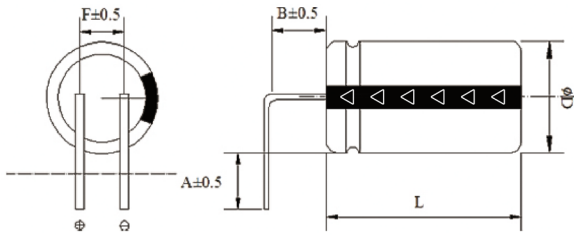
Letter "F": Lead cut and form.



Letter "R": Lead cut and bend (Right).



Letter "L": Lead cut and bend (Left).



| Letter | Termination Type   | Dø | 4ø   | 5ø   | 6.3ø | 8ø   | 10ø  | 12.5ø | 13ø  | 16ø  | 18ø  |
|--------|--------------------|----|------|------|------|------|------|-------|------|------|------|
|        | Standard long lead | F  | 1.50 | 2.00 | 2.50 | 3.50 | 5.00 | 5.00  | 5.00 | 7.50 | 7.50 |
| C      | Lead cut only      | F  | 1.50 | 2.00 | 2.50 | 3.50 | 5.00 | 5.00  | 5.00 | 7.50 | 7.50 |
|        |                    | L  | 3.30 | 3.30 | 3.30 | 3.30 | 3.30 | 3.30  | 3.30 | 3.30 | 3.30 |
| F      | Lead cut and form  | F  | 5.00 | 5.00 | 5.00 | 5.00 |      |       |      |      |      |
|        |                    | L  | 3.50 | 3.50 | 3.50 | 3.50 |      |       |      |      |      |
| R / L  | Lead cut and bend  | F  |      |      |      |      | 5.00 | 5.00  | 5.00 | 7.50 | 7.50 |
|        |                    | A  |      |      |      |      | 3.50 | 3.50  | 3.50 | 3.50 | 3.50 |
|        |                    | B  |      |      |      |      | 2.50 | 2.50  | 2.50 | 2.50 | 2.50 |

\*All dimensions in mm.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View RPF1018471M050K on WIN SOURCE](#)
- ⊖ [AVX Corp/Kyocera Corp Information](#)

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