



## Radial Lead Aluminum Electrolytic Capacitors

+105°C 7mm Height Low Profile

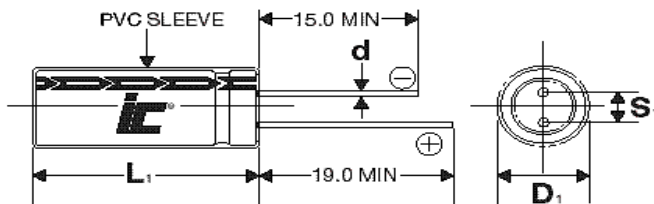
### FEATURES

Small Size - 7mm Height

### 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>SVDC</b>           | 7.9  | 13        | 20                               | 32         | 44        | 63         |  |
| <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>Tan δ</b>          | .22  | .2        | .16                              | .14        | .12       | .1         |  |
| <b>Leakage current</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>-25°C to +20°C</b> | 4  | 3         | 2                                | 2          | 2         | 2          |  |
|   | <b>-40°C to +20°C</b> | 8  | 6         | 4                                | 4          | 3         | 3          |  |
| <b>Load Life</b>  |                       | <b>1000 hours at 105°C with rated WVDC applied</b> |           |                                  |            |           |            |  |
|   |                       | <b>Capacitance change</b>                          |           | ≤25% of initial measured value   |            |           |            |  |
|   |                       | <b>Dissipation factor</b>                          |           | ≤150% of maximum specified value |            |           |            |  |
|   |                       | <b>Leakage current</b>                             |           | ≤100% of maximum specified value |            |           |            |  |
| <b>Shelf Life</b>   |                       | <b>1000 hours at 105°C with no voltage applied</b> |           |                                  |            |           |            |  |
|   |                       | <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 (uF)</b>                            | <b>50</b> | <b>120</b>                       | <b>400</b> | <b>1k</b> | <b>10k</b> |  |
|   |                       | 0.1-68   | .8        | 1.0                              | 1          | 1.5       | 1.5        |  |
|   |                       | 100-470  | .8        | 1.0                              | 1          | 1.15      | 1.2        |  |



|          |          |            |          |
|----------|----------|------------|----------|
| <b>D</b> | <b>5</b> | <b>6.3</b> | <b>8</b> |
| <b>S</b> | 2.0      | 2.5        | 3.5      |
| <b>d</b> | 0.5      | 0.5        | 0.6      |

$L_1 = L + 1.5\text{mm Max. mm}$   
 $D_1 = D + 0.5\text{mm Max.}$   
 $S_1 = S + 0.5\text{ mm}$

# PGM

+105°C, 7mm Height, General Purpose, 1000 hours

| Capacitance (µF) | WVDC | IC PART NUMBER             | Maximum ESR (Ω)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (mA)<br>120 Hz,<br>+105°C | Dims DxL (mm) |
|------------------|------|----------------------------|-------------------------------------|--|---------------|
| 0.1              | 50   | <a href="#">104PGM050M</a> | 1657.86                             | 1.5  | 4x7           |
| 0.22             | 50   | <a href="#">224PGM050M</a> | 753.575                             | 2.5  | 4x7           |
| 0.33             | 50   | <a href="#">334PGM050M</a> | 502.383                             | 3.5  | 4x7           |
| 0.47             | 50   | <a href="#">474PGM050M</a> | 352.737                             | 5  | 4x7           |
| 1                | 50   | <a href="#">105PGM050M</a> | 165.786                             | 10   | 4x7           |
| 2.2              | 50   | <a href="#">225PGM050M</a> | 75.358                              | 19   | 4x7           |
| 3.3              | 50   | <a href="#">335PGM050M</a> | 50.238                              | 24   | 4x7           |
| 4.7              | 35   | <a href="#">475PGM035M</a> | 42.328                              | 22   | 4x7           |
| 4.7              | 50   | <a href="#">475PGM050M</a> | 35.274                              | 27   | 5x7           |
| 6.8              | 25   | <a href="#">685PGM025M</a> | 34.133                              | 27   | 4x7           |
| 6.8              | 35   | <a href="#">685PGM035M</a> | 29.256                              | 30   | 5x7           |
| 6.8              | 50   | <a href="#">685PGM050M</a> | 24.38                               | 40   | 6.3x7         |
| 10               | 16   | <a href="#">106PGM016M</a> | 26.526                              | 24   | 4x7           |
| 10               | 35   | <a href="#">106PGM035M</a> | 19.894                              | 29   | 5x7           |

| Capacitance (µF) | WVDC | IC PART NUMBER             | Maximum ESR (Ω)<br>120 Hz,<br>+20°C | Maximum RMS Ripple Current (mA)<br>120 Hz,<br>+105°C | Dims DxL (mm) |
|------------------|------|----------------------------|-------------------------------------|--|---------------|
| 10               | 50   | <a href="#">106PGM050M</a> | 16.579                              | 40   | 6.3x7         |
| 22               | 6.3  | <a href="#">226PGM6R3M</a> | 16.5786                             | 31   | 4x7           |
| 22               | 16   | <a href="#">226PGM016M</a> | 12.057                              | 42   | 5x7           |
| 22               | 35   | <a href="#">226PGM035M</a> | 9.043                               | 58   | 6.3x7         |
| 22               | 50   | <a href="#">226PGM050M</a> | 7.536                               | 65   | 8x7           |
| 33               | 10   | <a href="#">336PGM010M</a> | 10.048                              | 50   | 5x7           |
| 33               | 25   | <a href="#">336PGM025M</a> | 7.033                               | 60   | 6.3x7         |
| 33               | 35   | <a href="#">336PGM035M</a> | 6.029                               | 80   | 8x7           |
| 47               | 6.3  | <a href="#">476PGM6R3M</a> | 7.76                                | 55   | 5x7           |
| 47               | 16   | <a href="#">476PGM016M</a> | 5.644                               | 75   | 6.3x7         |
| 47               | 25   | <a href="#">476PGM025M</a> | 4.938                               | 95   | 8x7           |
| 100              | 6.3  | <a href="#">107PGM6R3M</a> | 3.6473                              | 90   | 6.3x7         |
| 220              | 10   | <a href="#">227PGM010M</a> | 1.507                               | 145  | 8x7           |