



Radial Lead Aluminum Electrolytic Capacitors

+105°C High Frequency

FEATURES

Low ESR - High Ripple Current - Multiple case sizes

APPLICATIONS

Filtering - Bypass - Coupling - Blocking

| | | | | | | | | | | | | |
|---|-----------------------|---|-----------|----------------------------------|-----------|-----------|-----------|---------------------------------------|------|------|------|-----|
| Operating Temperature Range | | -55°C to +105°C | | | | | | | | | | |
| Capacitance Tolerance | | +20% at 120 Hz, 20°C | | | | | | | | | | |
| Surge voltage | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | |
| | SVDC | 7.9 | 13 | 20 | 32 | 44 | 63 | | | | | |
| Dissipation Factor | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | |
| | Tan δ | .26 | .22 | .18 | .16 | .14 | .12 | Add .02 for every 1000uF above 1000uF | | | | |
| Leakage current | | 1 Minute | | | | | | | | | | |
| | | .03CV | | | | | | | | | | |
| Low temperature stability Impedance ratio (120 Hz) | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | |
| | -55°C to +20°C | 6 | 6 | 4 | 4 | 4 | 3 | | | | | |
| Load Life | | 3000 hours at 105°C with rated WVDC and ripple current applied (2000 hrs for D_{≤6.3}) | | | | | | | | | | |
| | | Capacitance change | | ≤20% of initial measured value | | | | | | | | |
| | | Dissipation factor | | ≤200% of maximum specified value | | | | | | | | |
| | | Leakage current | | ≤100% of maximum specified value | | | | | | | | |
| Shelf Life | | 1000 hours at 105°C with no voltage applied | | | | | | | | | | |
| | | Capacitance change | | ≤20% initial measured value | | | | | | | | |
| | | Dissipation factor | | ≤200% of maximum specified value | | | | | | | | |
| | | Leakage current | | ≤100% of maximum specified value | | | | | | | | |
| Ripple Current Multipliers | | Frequency (Hz) | | | | | | Temperature (°C) | | | | |
| | | Capacitance | 50 | 120 | 300 | 1k | 10k | 100k | +105 | +85 | +65 | +50 |
| | | C<4.7 | .3 | .43 | .7 | .54 | .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 | .6 | .71 | .85 | .9 | 1.0 | 1.0 | 1.73 | 2.19 | 2.4 |
| | | 100<C≤270 | .6 | .72 | .8 | .91 | .95 | 1.0 | 1.0 | 1.73 | 2.19 | 2.4 |
| | | 270<C≤1000 | .68 | .83 | .9 | .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 |



| | | | | | | | |
|----------|----------|------------|----------|-----------|-------------|-----------|-----------|
| 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≤16mm, L₁=L+1.5mm Max.

L>16mm, L₁=L+2mm Max.

D₁=D+0.5mm Max.

S₁=S+0.5 mm

