



Aluminum Electrolytic Capacitors

+105°C 5mm Height, Low Profile, Radial Lead

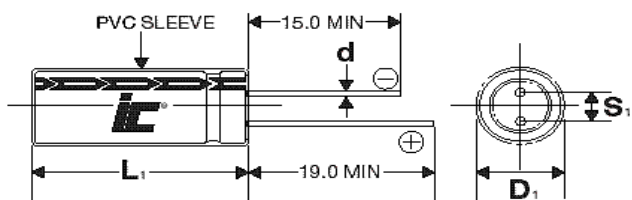
FEATURES

5mm Height - Lead Free Leads

APPLICATIONS

Filtering - Bypass - Coupling - Blocking

| | | | | | | | | | | |
|---|-----------------------|--|------------|----------------------------------|-----------|------------|-------------------------|-------------|------------|------------|
| Operating Temperature Range | | -40°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 | .28 | .24 | .2 | .16 | .13 | .12 | | | |
| Leakage current | | 2 Minutes | | | | | | | | |
| | | .01CV or 3uA, Whichever is greater | | | | | | | | |
| Low temperature stability Impedance ratio (120 Hz) | WVDC | 6.3 | 10 | 16 | 25 | 35 | 50 | | | |
| | -25°C to +20°C | 3 | 3 | 2 | 2 | 2 | 2 | | | |
| | -40°C to +20°C | 6 | 5 | 4 | 3 | 3 | 3 | | | |
| Load Life | | 1000 hours at 105°C with rated WVDC current applied | | | | | | | | |
| | | Capacitance change | | ≤25% of initial measured value | | | | | | |
| | | Dissipation factor | | ≤150% 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) | | | |
| | | 50 | 120 | 400 | 1k | 10k | 100k | +105 | +85 | +60 |
| | | .8 | 1.0 | 1.3 | 1.45 | 1.65 | 1.7 | 1.0 | 1.4 | 1.75 |



| | | | |
|-------|-----|-----|-----|
| D+0.5 | 4 | 5 | 6.3 |
| S | 1.5 | 2.0 | 2.5 |
| d | .45 | 0.5 | 0.5 |

$L_1 = L + 1.5\text{mm Max.}$ mm

$D_1 = D + 0.5\text{mm Max.}$

$S_1 = S + 0.5\text{ mm}$

STF

+105°C, 5mm height General purpose, 1000 hours

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxL (mm) |
|------------------|------|----------------------------|-------------------------------------|--|---------------|
| 0.1 | 50 | 104STF050M | 1658.7 | 1 | 4x5 |
| 0.22 | 50 | 224STF050M | 904.75 | 2.6 | 4x5 |
| 0.33 | 50 | 334STF050M | 502.64 | 3.2 | 4x5 |
| 0.47 | 50 | 474STF050M | 3.8 | 3.8 | 4x5 |
| 1 | 50 | 105STF050M | 165.87 | 6.2 | 4x5 |
| 2.2 | 50 | 225STF050M | 75.4 | 11 | 4x5 |
| 3.3 | 50 | 335STF050M | 50.26 | 14 | 4x5 |
| 4.7 | 35 | 475STF035M | 42.35 | 15 | 4x5 |
| 4.7 | 50 | 475STF050M | 35.29 | 19 | 5x5 |
| 10 | 16 | 106STF016M | 26.54 | 18 | 4x5 |

| Capacitance (µF) | WVDC | IC PART NUMBER | Maximum ESR (Ω) 120 Hz, +20°C | Maximum RMS Ripple Current (mA) 120 Hz, +105°C | Dims DxL (mm) |
|------------------|------|----------------------------|-------------------------------------|--|---------------|
| 10 | 35 | 106STF035M | 19.9 | 25 | 5x5 |
| 10 | 50 | 106STF050M | 19.9 | 30 | 6.3x5 |
| 22 | 6.3 | 226STF6R3M | 18.09 | 22 | 4x5 |
| 22 | 16 | 226STF016M | 12.06 | 30 | 5x5 |
| 22 | 35 | 226STF035M | 9.05 | 48 | 6.3x5 |
| 33 | 10 | 336STF010M | 10.05 | 35 | 5x5 |
| 33 | 25 | 336STF025M | 7.04 | 48 | 6.3x5 |
| 47 | 6.3 | 476STF6R3M | 9.877 | 36 | 5x5 |
| 47 | 16 | 476STF016M | 7.055 | 50 | 6.3x5 |
| 100 | 6.3 | 107STF6R3M | 3.98 | 60 | 6.3x5 |