

Film Capacitors High Frequency, Wrap-and-Fill, Metalized Polypropylene



FEATURES

- High stability
- High ripple current
- Low Inductance
- Low ESR
- Excellent AC performance

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55°C to + 105°C.
Voltage Derating: At + 105°C, 50% of + 85°C rating.
Capacitance Range: 0.022μF to 10.0μF.
Capacitance Tolerance: ± 20%, ± 10%, ± 5%.
DC Voltage Rating: 100 WVDC to 630 WVDC.
AC Voltage Rating: 70 Vrms to 277 Vrms, 60Hz to 400Hz.
Dissipation Factor: 0.10% maximum. Measure all units at 1kHz @ + 25°C.
Equivalent Series Resistance: 20kHz to 100kHz.
DC Voltage Test: 200% of rated voltage for 2 minutes.
AC Voltage Test: 130% of rated rms voltage @ 60Hz for 15 seconds.
Insulation Resistance: Measure at 100 WVDC after a 2 minute charge.
 At + 25°C: 100,000 Megohm-Microfarads or 200,000 Megohms minimum.
 At + 85°C: 10,000 Megohm-Microfarads or 20,000 Megohm minimum.
 At + 105°C: 1000 Megohm-Microfarads or 2000 Megohm minimum.
 $\Delta V/\Delta T$: 10 volts per micro-second maximum.
Vibration Test (Condition B): No mechanical damage, short, open or intermittent circuits.

DC Life Test: 150% of rated voltage for 1000 hours @ + 85°C. No open or short circuits. No visible damage evident.

Maximum CAP change ± 5.0%.
 Minimum IR = 50% of initial limit.
 Maximum DF = 0.12%.

Humidity Test: 95% relative humidity @ + 40°C for 250 hours. No visible damage evident.

Maximum CAP change = ± 5.0%.
 Minimum IR = 20% of initial limit.
 Maximum DF = 0.12%.

AC Life Test: 110% of rated rms voltage at 60Hz for 1000 hours @ + 85°C.

Maximum CAP change = ± 5.0%.
 Minimum IR = 50% of initial limit.
 Maximum DF = 0.12%.

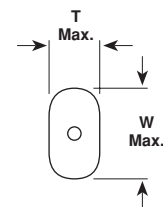
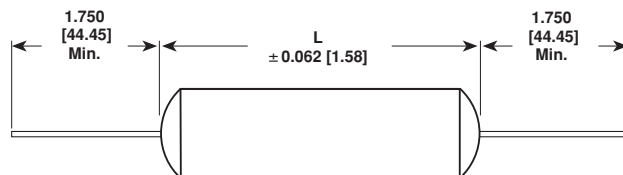
PHYSICAL CHARACTERISTICS

Lead Pull: 5 pounds (2.3 kilograms) for one minute. No physical damage.

Lead Bend: After three complete consecutive bends, no damage.

Marking: Sprague® trademark, type or part number, capacitance and voltage.

DIMENSIONS in inches [millimeters]



Lead Wire Size	
Case Size	Lead AWG
T Max. < 0.350 [8.890]	(No. 20 AWG)
T Max. ≥ 0.350 [8.890]	(No. 18 AWG)

Leads are bare, solid tinned copper wire.



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