

MLR

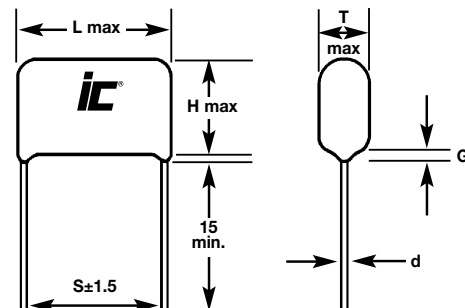
Epoxy Dipped Radial Lead Metallized Polyphenylene Sulphide Film Capacitors



- Automotive
- Audio
- Polycarbonate alternative
- Temperature stable
- High temperature
- RoHS compliant

Operating Temperature Range		-40°C to +125°C	
Capacitance Tolerance		±10% at 1kHz, 20°C	
Rated Voltage	VDC	100	
		For T > +105°C the applied voltage must be decreased by 1.5% per °C	
Dissipation Factor (max) at 20°C	Freq. (kHz)		
	1	.1%	
	100	.3%	
Insulation Resistance		15000MΩ Minimum, 100VDC applied for 60 seconds	
Load Life Test		1,000 hours at 125% of rated VDC and at 105°C	
		Capacitance Change	≤5% of initial measured value
		Dissipation Factor	≤200% of maximum specified value
		Insulation Resistance	>50% of minimum specified value
Damp Heat Test		500 hours at 40°C ±2°C with 90-95% relative humidity and 100% of rated WVDC	
		Capacitance Change	≤5% change from initial value.
		Dissipation Factor	≤0.005 at 1kHz and 25°C
		Insulation Resistance	>33% of minimum specification
Self-inductance		≤1 nH/mm along the capacitor pitch and lead wire length.	
Dielectric Strength		150% of rated WVDC applied between the terminals for 60 seconds	
		200% of rated WVDC applied to the terminals and the case for 1 to 5 seconds	
Capacitance Drift Factor		≤1.0% up to 40°C after 2 years	
Temperature Coefficient		0 ppm/°C, ± 100ppm/°C	
Dielectric		Polyphenylene sulphide	
Electrodes		Vacuum deposited metal layers	
Construction		Wound Metallized film	
Leads		Lead free Tinned copper wire	
Coating		Flame retardant epoxy sealed resin (UL 94V-O)	

Capacitance (µF)	WVDC	ic PART NUMBER	dv/dt (V/µs)	Maximum RMS current 1kHz, 20°C.	LxHxT (mm)	S (mm)	d (mm)
0.1	100	104MLR100K	15	0.18	13x9x5.5	8.0	0.6
0.12	100	124MLR100K	15	0.16	13x9.5x6	8.0	0.6
0.15	100	154MLR100K	15	0.12	13x9.5x6	8.0	0.6
0.18	100	184MLR100K	15	0.1	13x10x6	8.0	0.6
0.22	100	224MLR100K	15	0.09	13x10x6	8.0	0.6
0.27	100	274MLR100K	15	0.072	13x11x7	8.0	0.6
0.3	100	304MLR100K	15	0.06	13x12x7.5	8.0	0.6
0.33	100	334MLR100K	15	0.05	13x12x8	9.0	0.6
0.36	100	364MLR100K	15	0.04	13x12x8	9.0	0.6



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Metallized Polphenylene
Sulphide Film Capacitors

Environmental and frequency characterisitic graphs

