

# MPR

## Metallized Polypropylene Film Capacitors

+105°C Epoxy Dipped, Radial Lead



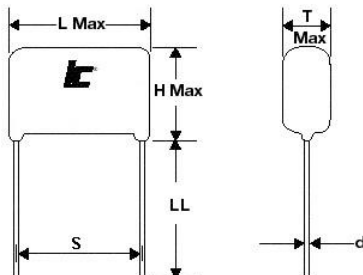
### FEATURES

Small size - Low ESR - Good Pulse Capabilities - Stable with Frequency and Temperature

### APPLICATIONS

General Purpose - Switching Power Supplies - Blocking - Coupling - AC Applications (Not across the Line)

<b>Operating Temperature Range</b>	<b>-55°C to +105°C</b>					
<b>Capacitance Tolerance</b>	±10% at 1 kHz, 25°C ±5% optional					
<b>Peak, AC voltage (50/60 Hz)</b>	<b>WVDC</b>	<b>100</b>	<b>250</b>	<b>400</b>	<b>630</b>	<b>1000</b>
	<b>VAC</b>	63	200	220	250	300
For T>+85°C, The voltage must be decreased by 1.5% per °C						
<b>Dissipation Factor (MAX) 25°C</b>	<b>Frequency (kHz)</b>	<b>C≤0.1uF</b>		<b>0.1uF&lt;C≤1uF</b>		<b>1uF&lt;C≤3uF</b>
	1	0.1%		0.1%		0.1%
	100	0.4%		0.7%		1.2%
<b>Insulation Resistance @25°C (&lt;70% RH) for 1 minute at 100VDC applied</b>	<b>Capacitance</b>	<b>Insulation Resistance</b>				
	≤0.33μF	30000 MΩ				
	>0.33μF	10000 MΩxμF				
<b>Load Life</b>	<b>2000 Hours, +85C with 125% of rated voltage</b>					
	<b>Capacitance Change</b>	≤3% of initially measured value				
	<b>Dissipation Factor</b>	≤0.001 at 1kHz and 25°C				
	<b>Insulation Resistance</b>	≥50% of maximum specified value				
<b>Damp Heat test</b>	<b>56 days at 40°C with 90 to 95%RH, +40°C and no voltage applied</b>					
	<b>Capacitance Change</b>	≤3% of initially measured value				
	<b>Dissipation Factor</b>	≤0.001 at 1kHz and 25°C				
	<b>Insulation Resistance</b>	≥50% of maximum specified value				
<b>Self Inductance</b>	<1 nano-Henry per mm of body length and lead length					
<b>Capacitance Drift Factor</b>	<0.5% after 2 years at 40°C					
<b>Capacitance Temperature Coefficient</b>	-200 ppm/°C, ±100ppm/°C					
<b>Dielectric Strength</b>	<b>Terminal to Terminal</b>					
	160% of rated VDC or VAC applied for 2 Seconds and 25°C					
<b>Dielectric</b>	Polypropylene					
<b>Construction</b>	Metallized film					
<b>Coating</b>	Flame Retardant epoxy resin (UL94V0)					
<b>Leads</b>	Lead free tinned copper leads					



L MAX	12	18.5	26	31
S±1.0	10	15	22.5	27.5
G MAX	1.5	1.5	1.5	1.5
d +0.05	0.6	0.8	0.8	0.8

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Metallized Polypropylene  
Epoxy Dipped Radial Lead

WVDC	Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
100	0.47	<a href="#">474MPR100K</a>	100	18.5x14x8	15	0.8
250	0.015	<a href="#">153MPR250K</a>	220	13x9x5	10	0.6
250	0.022	<a href="#">223MPR250K</a>	220	13x9x5	10	0.6
250	0.033	<a href="#">333MPR250K</a>	220	13x9x5.5	10	0.6
250	0.047	<a href="#">473MPR250K</a>	220	13x9.5x5.5	10	0.6
250	0.068	<a href="#">683MPR250K</a>	220	13x10.5x6	10	0.6
250	0.1	<a href="#">104MPR250K</a>	220	13x11x7	10	0.6
250	0.15	<a href="#">154MPR250K</a>	200	18x11x7	15	0.8
250	0.22	<a href="#">224MPR250K</a>	200	18x12.5x7.5	15	0.8
250	0.33	<a href="#">334MPR250K</a>	200	18x13x8.5	15	0.8
250	0.47	<a href="#">474MPR250K</a>	110	26x14x8.5	22.5	0.8
250	0.68	<a href="#">684MPR250K</a>	115	26x15x9.5	22.5	0.8
250	1	<a href="#">105MPR250K</a>	110	26x16x12	22.5	0.8
250	1.5	<a href="#">155MPR250K</a>	100	31x18x13	27.5	0.8
250	2.2	<a href="#">225MPR250K</a>	100	31x21x15	27.5	0.8
400	0.01	<a href="#">103MPR400K</a>	350	13x9x5	10	0.6
400	0.015	<a href="#">153MPR400K</a>	350	13x9.5x5	10	0.6
400	0.022	<a href="#">223MPR400K</a>	350	13x10.5x5.5	10	0.6
400	0.033	<a href="#">333MPR400K</a>	350	13x11x6.5	10	0.6
400	0.047	<a href="#">473MPR400K</a>	350	13x11x7.5	10	0.6

WVDC	Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
400	0.068	<a href="#">683MPR400K</a>	300	18x12x6.5	15	0.8
400	0.1	<a href="#">104MPR400K</a>	300	18x12.5x7.5	15	0.8
400	0.15	<a href="#">154MPR400K</a>	185	26x13x7.5	22.5	0.8
400	0.22	<a href="#">224MPR400K</a>	165	26x14x8.5	22.5	0.8
400	0.33	<a href="#">334MPR400K</a>	165	26x15x10	22.5	0.8
400	0.47	<a href="#">474MPR400K</a>	150	31x16.5x10.5	27.5	0.8
400	1	<a href="#">105MPR400K</a>	150	31x22x15	27.5	0.8
630	0.01	<a href="#">103MPR630K</a>	420	13x10x6	10	0.6
630	0.015	<a href="#">153MPR630K</a>	420	13x11x7	10	0.6
630	0.022	<a href="#">223MPR630K</a>	420	13x12.5x8.5	10	0.6
630	0.033	<a href="#">333MPR630K</a>	400	18x11.5x7.5	15	0.8
630	0.047	<a href="#">473MPR630K</a>	400	18x13.5x8.5	15	0.8
630	0.068	<a href="#">683MPR630K</a>	400	18x15.5x9.5	15	0.8
630	0.1	<a href="#">104MPR630K</a>	230	26x15x10	22.5	0.8
630	0.15	<a href="#">154MPR630K</a>	230	26x17x11	22.5	0.8
630	0.22	<a href="#">224MPR630K</a>	180	31x17.5x10.5	27.5	0.8
630	0.33	<a href="#">334MPR630K</a>	180	31x21.5x13	27.5	0.8
630	0.47	<a href="#">474MPR630K</a>	180	31x24.5x15.5	27.5	0.8
1000	0.22	<a href="#">224MPR102K</a>	135	31x18x9	27.5	0.8
1000	0.47	<a href="#">474MPR102K</a>	135	31x22x13	27.5	0.8

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