



**THE DATASHEET OF  
224MPR250K**





## Metallized Polypropylene Film Capacitors

+105°C Epoxy Dipped, Radial Lead

### FEATURES

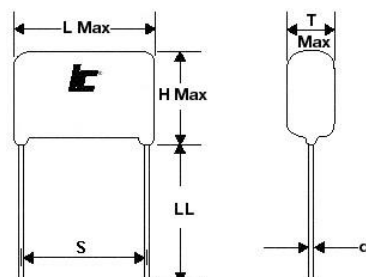
Small size - Low ESR - Good Pulse Capabilities - Stable with Frequency and Temperature

### 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>
	<b>1</b>	0.1%		0.1%		0.1%
	<b>100</b>	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 at40°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 Leads					

### Special Order Options



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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# MPR

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	474MPR100K	100	18.5x14x8	15	0.8
250	0.015	153MPR250K	220	13x9x5	10	0.6
250	0.022	223MPR250K	220	13x9x5	10	0.6
250	0.033	333MPR250K	220	13x9x5.5	10	0.6
250	0.047	473MPR250K	220	13x9.5x5.5	10	0.6
250	0.068	683MPR250K	220	13x10.5x6	10	0.6
250	0.1	104MPR250K	220	13x11x7	10	0.6
250	0.15	154MPR250K	200	18x11x7	15	0.8
250	0.22	224MPR250K	200	18x12.5x7.5	15	0.8
250	0.33	334MPR250K	200	18x13x8.5	15	0.8
250	0.47	474MPR250K	110	26x14x8.5	22.5	0.8
250	0.68	684MPR250K	115	26x15x9.5	22.5	0.8
250	1	105MPR250K	110	26x16x12	22.5	0.8
250	1.5	155MPR250K	100	31x18x13	27.5	0.8
250	2.2	225MPR250K	100	31x21x15	27.5	0.8
400	0.01	103MPR400K	350	13x9x5	10	0.6
400	0.015	153MPR400K	350	13x9.5x5	10	0.6
400	0.022	223MPR400K	350	13x10.5x5.5	10	0.6
400	0.033	333MPR400K	350	13x11x6.5	10	0.6
400	0.047	473MPR400K	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	683MPR400K	300	18x12x6.5	15	0.8
400	0.1	104MPR400K	300	18x12.5x7.5	15	0.8
400	0.15	154MPR400K	185	26x13x7.5	22.5	0.8
400	0.22	224MPR400K	165	26x14x8.5	22.5	0.8
400	0.33	334MPR400K	165	26x15x10	22.5	0.8
400	0.47	474MPR400K	150	31x16.5x10.5	27.5	0.8
400	1	105MPR400K	150	31x22x15	27.5	0.8
630	0.01	103MPR630K	420	13x10x6	10	0.6
630	0.015	153MPR630K	420	13x11x7	10	0.6
630	0.022	223MPR630K	420	13x12.5x8.5	10	0.6
630	0.033	333MPR630K	400	18x11.5x7.5	15	0.8
630	0.047	473MPR630K	400	18x13.5x8.5	15	0.8
630	0.068	683MPR630K	400	18x15.5x9.5	15	0.8
630	0.1	104MPR630K	230	26x15x10	22.5	0.8
630	0.15	154MPR630K	230	26x17x11	22.5	0.8
630	0.22	224MPR630K	180	31x17.5x10.5	27.5	0.8
630	0.33	334MPR630K	180	31x21.5x13	27.5	0.8
630	0.47	474MPR630K	180	31x24.5x15.5	27.5	0.8
1000	0.22	224MPR102K	135	31x18x9	27.5	0.8
1000	0.47	474MPR102K	135	31x22x13	27.5	0.8

## Looking for pricing, stock, or lifecycle information?

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- ⊖ [Cornell Dubilier Electronics \(CDE\) Information](#)

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