MPR

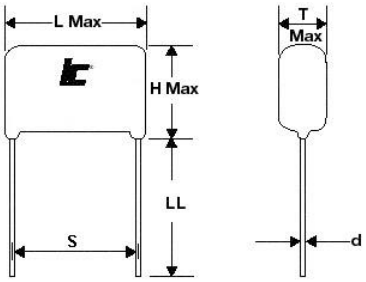
Metallized Polypropylene Film Capacitors

+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)

Operating Temperature Range	**-55°C to +105°C**						
Capacitance Tolerance	±10% at 1 kHz, 25°C ±5% optional						
Peak, AC voltage (50/60 Hz)	**WVDC**	**100**	**250**	**400**	**630**	**1000**	
	VAC	63	200	220	250	300	
	For T>+85°C , The voltage must be decreased by 1.5% per °C						
Dissipation Factor (MAX) 25°C	**Frequency (kHz)**	**C≤0.1uF**	**0.1uF<C≤1uF**	**1uF<C≤3uF**	**3uF<C≤5uF**	**C>5uF**	
	1	0.1%	0.1%	0.1%	0.1%	0.1%	
	100	0.4%	0.7%	1.2%	1.8%	2.8%	
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	**Capacitance**	**Insulation Resistance**					
	≤0.33µF	30000 MΩ					
	>0.33µF	10000 MΩxµF					
Load Life	**2000 Hours, +85C with 125% of rated voltage**						
	Capacitance Change	≤3% of initially measured value					
	Dissipation Factor	≤0.001 at 1kHz and 25°C					
	Insulation Resistance	≥50% of maximum specified value					
Damp Heat test	**56 days at40°C with 90 to 95%RH, +40°C and no voltage applied**						
	Capacitance Change	≤3% of initially measured value					
	Dissipation Factor	≤0.001 at 1kHz and 25°C					
	Insulation Resistance	≥50% of maximum specified value					
Self Inductance	<1 nano-Henry per mm of body length and lead length						
Capacitance Drift Factor	<0.5% after 2 years at 40°C						
Capacitance Temperature Coefficient	-200 ppm/°C, ±100ppm/°C						
Dielectric Strength	**Terminal to Terminal**						
	160% of rated VDC or VAC applied for 2 Seconds and 25°C						
Dielectric	Polypropylene						
Construction	Metallized film						
Coating	Flame Retardant epoxy resin (UL94V0)						
Leads	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

CDE ILLINOIS CAPACITOR a Cornell Dubilier Brand

©2019 Illinois Capacitor

North America
Tel: (847) 675-1760
sales@illcap.com

Asia
Tel: 852 2793 0931
sales@illcap.com.hk

MPR

Metallized Polypropylene Epoxy Dipped Radial Lead

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.01	400	103MPR400K	350	13x9x5	10	0.6
0.01	630	103MPR630K	420	13x10x6	10	0.6
0.015	250	153MPR250K	220	13x9x5	10	0.6
0.015	400	153MPR400K	350	13x9.5x5	10	0.6
0.015	630	153MPR630K	420	13x11x7	10	0.6
0.022	250	223MPR250K	220	13x9x5	10	0.6
0.022	400	223MPR400K	350	13x10.5x5.5	10	0.6
0.022	630	223MPR630K	420	13x12.5x8.5	10	0.6
0.033	250	333MPR250K	220	13x9x5.5	10	0.6
0.033	400	333MPR400K	350	13x11x6.5	10	0.6
0.033	630	333MPR630K	400	18x11.5x7.5	15	0.8
0.047	250	473MPR250K	220	13x9.5x5.5	10	0.6
0.047	400	473MPR400K	350	13x11x7.5	10	0.6
0.047	630	473MPR630K	400	18x13.5x8.5	15	0.8
0.068	250	683MPR250K	220	13x10.5x6	10	0.6
0.068	400	683MPR400K	300	18x12x6.5	15	0.8
0.068	630	683MPR630K	400	18x15.5x9.5	15	0.8
0.1	250	104MPR250K	220	13x11x7	10	0.6
0.1	400	104MPR400K	300	18x12.5x7.5	15	0.8
0.1	630	104MPR630K	230	26x15x10	22.5	0.8

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.15	250	154MPR250K	200	18x11x7	15	0.8
0.15	400	154MPR400K	185	26x13x7.5	22.5	0.8
0.15	630	154MPR630K	230	26x17x11	22.5	0.8
0.22	250	224MPR250K	200	18x12.5x7.5	15	0.8
0.22	400	224MPR400K	165	26x14x8.5	22.5	0.8
0.22	630	224MPR630K	180	31x17.5x10.5	27.5	0.8
0.22	1000	224MPR102K	135	31x18x9	27.5	0.8
0.33	250	334MPR250K	200	18x13x8.5	15	0.8
0.33	400	334MPR400K	165	26x15x10	22.5	0.8
0.33	630	334MPR630K	180	31x21.5x13	27.5	0.8
0.47	100	474MPR100K	100	18.5x14x8	15	0.8
0.47	250	474MPR250K	110	26x14x8.5	22.5	0.8
0.47	400	474MPR400K	150	31x16.5x10.5	27.5	0.8
0.47	630	474MPR630K	180	31x24.5x15.5	27.5	0.8
0.47	1000	474MPR102K	135	31x22x13	27.5	0.8
0.68	250	684MPR250K	115	26x15x9.5	22.5	0.8
1	250	105MPR250K	110	26x16x12	22.5	0.8
1	400	105MPR400K	150	31x22x15	27.5	0.8
1.5	250	155MPR250K	100	31x18x13	27.5	0.8
2.2	250	225MPR250K	100	31x21x15	27.5	0.8

©2019 Illinois Capacitor

CDE ILLINOIS CAPACITOR a Cornell Dubilier Brand

North America
Tel: (847) 675-1760
sales@illcap.com

Asia
Tel: 852 2793 0931
sales@illcap.com.hk