MPR

Radial leaded metallized polypropylene film capacitors



Features

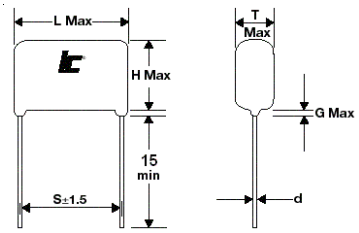
- Self Healing
- Low ESR
- Stable with frequency and temperature
- Good pulse current ratings

Applications

- General Purpose
- AC Applications (not across the line)
- Switching power supplies
- Ballasts

Specifications

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**	**250**	**400**	**630**		
	VAC	200	220	250		
	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	≤5% of initially measured value				
	Dissipation Factor	≤0.005 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**					
	200% of rated VDC or VAC applied for 10 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

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MPR

Metallized Polypropylene
Epoxy Dipped Radial Lead

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

Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.1	104MPR630K	230	26x15x10	22.5	0.8
0.15	154MPR250K	200	18x11x7	15	0.8
0.15	154MPR400K	185	26x13x7.5	22.5	0.8
0.15	154MPR630K	230	26x17x11	22.5	0.8
0.22	224MPR250K	200	18x12.5x7.5	15	0.8
0.22	224MPR400K	165	26x14x8.5	22.5	0.8
0.22	224MPR630K	180	31x17.5x10.5	27.5	0.8
0.33	334MPR250K	200	18x13x8.5	15	0.8
0.33	334MPR400K	165	26x15x10	22.5	0.8
0.33	334MPR630K	180	31x21.5x13	27.5	0.8
0.47	474MPR250K	110	26x14x8.5	22.5	0.8
0.47	474MPR400K	150	31x16.5x10.5	27.5	0.8
0.47	474MPR630K	180	31x24.5x15.5	27.5	0.8
0.68	684MPR250K	115	26x15x9.5	22.5	0.8
1	105MPR250K	110	26x16x12	22.5	0.8
1	105MPR400K	150	31x22x15	27.5	0.8
1.5	155MPR250K	100	31x18x13	27.5	0.8
2.2	225MPR250K	100	31x21x15	27.5	0.8

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