



# MMR

## Metallized Polyester Film Capacitors

Radial Leaded, Epoxy Dipped



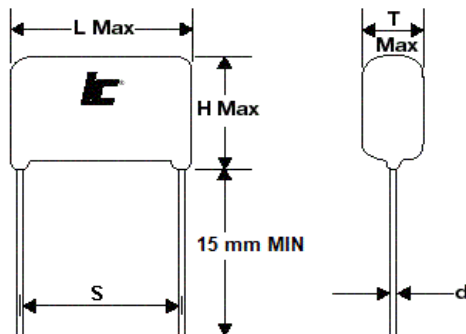
### FEATURES

Small Size - High Voltage - General Purpose

### APPLICATIONS

General Purpose - Bypass - Coupling - Blocking

<b>Operating Temperature Range</b>	<b>-40°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>VAC</b>	63	160	200	220
For T>+85°C, The voltage must be decreased by 1.25% per °C					
<b>Dissipation Factor (MAX) 25°C</b>	<b>Frequency (kHz)</b>	<b>Dissipation Factor</b>			
	<b>1</b>	1.0%			
	<b>10</b>	1.5%			
<b>Insulation Resistance @25°C (&lt;70% RH)for 1 minute at 100VDC applied</b>	<b>Capacitance</b>	<b>Insulation Resistance</b>			
	≤0.33μF	9000 MΩ			
	>0.33μF	3000 MΩ×μF			
<b>Load Life</b>	<b>2000 Hours, +85C with 125% of rated voltage</b>				
	<b>Capacitance Change</b>	≤5% of initially measured value			
	<b>Dissipation Factor</b>	≤0.005 at 1kHz and 25°C			
<b>Damp Heat test</b>	<b>1000 Hours, 93%RH(+/-2%), +40°C and no voltage applied</b>				
	<b>Capacitance Change</b>	≤5% of initially measured value			
	<b>Dissipation Factor</b>	≤0.005 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>	<1.0% after 2 years at 40°C				
<b>Capacitance Temperature Coefficient</b>	+400 ppm/°C, ±200ppm/°C				
<b>Dielectric Strength</b>	<b>Terminal to Terminal</b>				
	160% of VDC applied for 2 Seconds and 25°C				
<b>Dielectric</b>	Polyester				
<b>Construction</b>	Metallized film				
<b>Coating</b>	Flame Retardant epoxy resin (UL94V0)				
<b>Leads</b>	Lead free tinned copper leads				



L MAX	10.5	12	18.5	26	31
S+1.0	7.5	10	15	22.5	27.5
G MAX	1.5	1.5	1.5	1.5	1.5
d +0.05	0.6	0.6	0.8	0.8	0.8



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# MMR

Small Size Epoxy Dipped Metallized Polyester Radial lead

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.01	250	103MMR250K	80	10.3x7.4x4.3	7.5	0.6
0.01	400	103MMR400K	190	10.3x7.4x4.3	7.5	0.6
0.01	630	103MMR630K	200	12x7.5x4.5	10	0.6
0.015	250	153MMR250K	80	10.3x7.5x4.4	7.5	0.6
0.015	400	153MMR400K	190	10.3x7.5x4.4	7.5	0.6
0.015	630	153MMR630K	200	12x8.2x5	10	0.6
0.022	250	223MMR250K	80	10.3x7.5x4.4	7.5	0.6
0.022	400	223MMR400K	190	10.3x7.9x4.8	7.5	0.6
0.022	630	223MMR630K	200	12x10.5x5.3	10	0.6
0.033	250	333MMR250K	80	10.3x7.5x4.5	7.5	0.6
0.033	400	333MMR400K	190	10.3x9x6	7.5	0.6
0.033	630	333MMR630K	200	12x11.9x6	10	0.6
0.047	250	473MMR250K	80	10.3x7.5x4.5	7.5	0.6
0.047	400	473MMR400K	160	12x8.3x5	10	0.6
0.047	630	473MMR630K	200	12x13.5x6.5	10	0.6
0.068	250	683MMR250K	80	10.3x7.5x4.5	7.5	0.6
0.068	400	683MMR400K	160	12x10.5x5.4	10	0.6
0.068	630	683MMR630K	90	18.5x11x5.8	15	0.8
0.1	250	104MMR250K	80	10.3x8.4x5.8	7.5	0.6
0.1	400	104MMR400K	160	12x12x6.3	10	0.6
0.1	630	104MMR630K	90	18.5x14x6.3	15	0.8
0.15	100	154MMR100K	35	10.3x7.5x4.5	7.5	0.6
0.15	250	154MMR250K	80	10.3x10.8x6	7.5	0.6
0.15	400	154MMR400K	65	18.5x12.4x5	15	0.8
0.15	630	154MMR630K	90	18.5x15.4x7.5	15	0.8
0.22	100	224MMR100K	35	10.3x8x5	7.5	0.6
0.22	250	224MMR250K	110	12x10.5x5.5	10	0.6
0.22	400	224MMR400K	65	18.5x13x5.9	15	0.8
0.22	630	224MMR630K	90	18.5x16.5x9	15	0.8
0.33	100	334MMR100K	35	10.3x10.7x6	7.5	0.6
0.33	250	334MMR250K	110	12x12x6.5	10	0.6
0.33	400	334MMR400K	65	18.5x14.9x7	15	0.8

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.33	630	334MMR630K	35	26x17x7.8	22.5	0.8
0.47	250	474MMR250K	45	18.5x12.5x5.3	15	0.8
0.47	400	474MMR400K	65	18.5x17x7.8	15	0.8
0.47	630	474MMR630K	35	26x18.5x9.3	22.5	0.8
0.68	100	684MMR100K	0	12x13x6	10	0.6
0.68	250	684MMR250K	45	18.5x13.5x6	15	0.8
0.68	400	684MMR400K	30	26x16.5x7	22.5	0.8
0.68	630	684MMR630K	35	26x21x11.5	22.5	0.8
1	100	105MMR100K	30	12x14x6.7	10	0.6
1	250	105MMR250K	45	18.5x15x7.4	15	0.8
1	400	105MMR400K	30	26x18x8.5	22.5	0.8
1	630	105MMR630K	30	31x21.9x12.5	27.5	0.8
1.5	100	155MMR100K	20	18.5x13.4x6	15	0.8
1.5	250	155MMR250K	45	18.5x16.8x9	15	0.8
1.5	400	155MMR400K	25	31x19x9.5	27.5	0.8
1.5	630	155MMR630K	30	31x24.7x15.3	27.5	0.8
2.2	100	225MMR100K	20	18.5x15x7	15	0.8
2.2	250	225MMR250K	20	26x16.3x8.5	22.5	0.8
2.2	400	225MMR400K	25	31x22x11	27.5	0.8
2.2	630	225MMR630K	30	31x29x19.5	27.5	0.8
3.3	100	335MMR100K	20	18.5x16.5x8.5	15	0.8
3.3	250	335MMR250K	20	26x18x10.3	22.5	0.8
4.7	100	475MMR100K	10	26x17x7.5	22.5	0.8
4.7	250	475MMR250K	20	26x21.5x12	22.5	0.8
5.6	100	565MMR100K	10	26x18.5x8.3	22.5	0.8
5.6	250	565MMR250K	15	31x22x11.8	27.5	0.8
6.8	100	685MMR100K	10	26x18.5x9	22.5	0.8
6.8	250	685MMR250K	15	31x22.4x13	27.5	0.8
8.2	100	825MMR100K	10	26x21x10	22.5	0.8
8.2	250	825MMR250K	15	31x24.5x14.3	27.5	0.8
10	100	106MMR100K	10	26x21x11.5	22.5	0.8
10	250	106MMR250K	15	31x25.8x15.9	27.5	0.8