



# MMR

## Metallized Polyester Film Capacitors

Radial Leaded, Epoxy Dipped



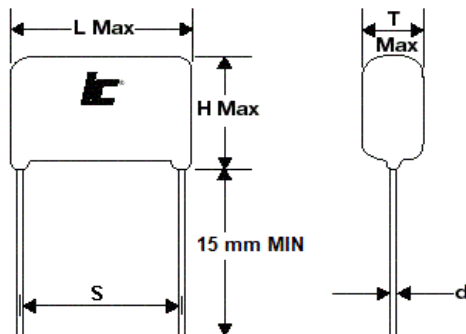
### FEATURES

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	<a href="#">103MMR250K</a>	80	10.3x7.4x4.3	7.5	0.6
0.01	400	<a href="#">103MMR400K</a>	190	10.3x7.4x4.3	7.5	0.6
0.01	630	<a href="#">103MMR630K</a>	200	12x7.5x4.5	10	0.6
0.015	250	<a href="#">153MMR250K</a>	80	10.3x7.5x4.4	7.5	0.6
0.015	400	<a href="#">153MMR400K</a>	190	10.3x7.5x4.4	7.5	0.6
0.015	630	<a href="#">153MMR630K</a>	200	12x8.2x5	10	0.6
0.022	250	<a href="#">223MMR250K</a>	80	10.3x7.5x4.4	7.5	0.6
0.022	400	<a href="#">223MMR400K</a>	190	10.3x7.9x4.8	7.5	0.6
0.022	630	<a href="#">223MMR630K</a>	200	12x10.5x5.3	10	0.6
0.033	250	<a href="#">333MMR250K</a>	80	10.3x7.5x4.5	7.5	0.6
0.033	400	<a href="#">333MMR400K</a>	190	10.3x9x6	7.5	0.6
0.033	630	<a href="#">333MMR630K</a>	200	12x11.9x6	10	0.6
0.047	250	<a href="#">473MMR250K</a>	80	10.3x7.5x4.5	7.5	0.6
0.047	400	<a href="#">473MMR400K</a>	160	12x8.3x5	10	0.6
0.047	630	<a href="#">473MMR630K</a>	200	12x13.5x6.5	10	0.6
0.068	250	<a href="#">683MMR250K</a>	80	10.3x7.5x4.5	7.5	0.6
0.068	400	<a href="#">683MMR400K</a>	160	12x10.5x5.4	10	0.6
0.068	630	<a href="#">683MMR630K</a>	90	18.5x11x5.8	15	0.8
0.1	250	<a href="#">104MMR250K</a>	80	10.3x8.4x5.8	7.5	0.6
0.1	400	<a href="#">104MMR400K</a>	160	12x12x6.3	10	0.6
0.1	630	<a href="#">104MMR630K</a>	90	18.5x14x6.3	15	0.8
0.15	100	<a href="#">154MMR100K</a>	35	10.3x7.5x4.5	7.5	0.6
0.15	250	<a href="#">154MMR250K</a>	80	10.3x10.8x6	7.5	0.6
0.15	400	<a href="#">154MMR400K</a>	65	18.5x12.4x5	15	0.8
0.15	630	<a href="#">154MMR630K</a>	90	18.5x15.4x7.5	15	0.8
0.22	100	<a href="#">224MMR100K</a>	35	10.3x8x5	7.5	0.6
0.22	250	<a href="#">224MMR250K</a>	110	12x10.5x5.5	10	0.6
0.22	400	<a href="#">224MMR400K</a>	65	18.5x13x5.9	15	0.8
0.22	630	<a href="#">224MMR630K</a>	90	18.5x16.5x9	15	0.8
0.33	100	<a href="#">334MMR100K</a>	35	10.3x10.7x6	7.5	0.6
0.33	250	<a href="#">334MMR250K</a>	110	12x12x6.5	10	0.6
0.33	400	<a href="#">334MMR400K</a>	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	<a href="#">334MMR630K</a>	35	26x17x7.8	22.5	0.8
0.47	250	<a href="#">474MMR250K</a>	45	18.5x12.5x5.3	15	0.8
0.47	400	<a href="#">474MMR400K</a>	65	18.5x17x7.8	15	0.8
0.47	630	<a href="#">474MMR630K</a>	35	26x18.5x9.3	22.5	0.8
0.68	100	<a href="#">684MMR100K</a>	0	12x13x6	10	0.6
0.68	250	<a href="#">684MMR250K</a>	45	18.5x13.5x6	15	0.8
0.68	400	<a href="#">684MMR400K</a>	30	26x16.5x7	22.5	0.8
0.68	630	<a href="#">684MMR630K</a>	35	26x21x11.5	22.5	0.8
1	100	<a href="#">105MMR100K</a>	30	12x14x6.7	10	0.6
1	250	<a href="#">105MMR250K</a>	45	18.5x15x7.4	15	0.8
1	400	<a href="#">105MMR400K</a>	30	26x18x8.5	22.5	0.8
1	630	<a href="#">105MMR630K</a>	30	31x21.9x12.5	27.5	0.8
1.5	100	<a href="#">155MMR100K</a>	20	18.5x13.4x6	15	0.8
1.5	250	<a href="#">155MMR250K</a>	45	18.5x16.8x9	15	0.8
1.5	400	<a href="#">155MMR400K</a>	25	31x19x9.5	27.5	0.8
1.5	630	<a href="#">155MMR630K</a>	30	31x24.7x15.3	27.5	0.8
2.2	100	<a href="#">225MMR100K</a>	20	18.5x15x7	15	0.8
2.2	250	<a href="#">225MMR250K</a>	20	26x16.3x8.5	22.5	0.8
2.2	400	<a href="#">225MMR400K</a>	25	31x22x11	27.5	0.8
2.2	630	<a href="#">225MMR630K</a>	30	31x29x19.5	27.5	0.8
3.3	100	<a href="#">335MMR100K</a>	20	18.5x16.5x8.5	15	0.8
3.3	250	<a href="#">335MMR250K</a>	20	26x18x10.3	22.5	0.8
4.7	100	<a href="#">475MMR100K</a>	10	26x17x7.5	22.5	0.8
4.7	250	<a href="#">475MMR250K</a>	20	26x21.5x12	22.5	0.8
5.6	100	<a href="#">565MMR100K</a>	10	26x18.5x8.3	22.5	0.8
5.6	250	<a href="#">565MMR250K</a>	15	31x22x11.8	27.5	0.8
6.8	100	<a href="#">685MMR100K</a>	10	26x18.5x9	22.5	0.8
6.8	250	<a href="#">685MMR250K</a>	15	31x22.4x13	27.5	0.8
8.2	100	<a href="#">825MMR100K</a>	10	26x21x10	22.5	0.8
8.2	250	<a href="#">825MMR250K</a>	15	31x24.5x14.3	27.5	0.8
10	100	<a href="#">106MMR100K</a>	10	26x21x11.5	22.5	0.8
10	250	<a href="#">106MMR250K</a>	15	31x25.8x15.9	27.5	0.8