

# MMR

## Radial leaded metallized polyester film capacitors



### Features

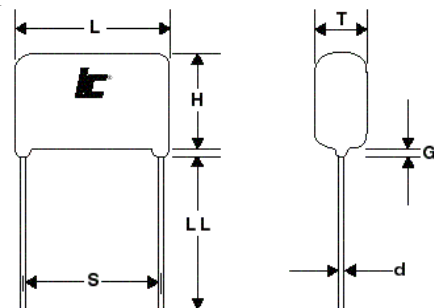
- Self Healing
- Low ESR
- Small size
- Low cost

### Applications

- General Purpose
- Bypass
- Coupling
- Blocking

### Specifications

Operating Temperature Range	<b>-40°C to +105°C</b>				
Capacitance Tolerance	±10% at 1 kHz, 25°C +5% optional				
Peak, AC voltage (50/60 Hz)	WVDC	100	250	400	630
	VAC	63	160	200	220
For T>+85°C , The voltage must be decreased by 1.25% per °C					
Dissipation Factor (MAX) 25°C	Frequency (kHz)		Dissipation Factor		
	1		1.0%		
	10		1.5%		
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	Capacitance		Insulation Resistance		
	≤0.33μF		9000 MΩ		
	>0.33μF		3000 MΩxμF		
Load Life	2000 Hours, +85C with 125% of rated voltage				
	Capacitance Change		≤5% of initially measured value		
	Dissipation Factor		≤0.005 at 1kHz and 25°C		
	Insulation Resistance		≥50% of maximum specified value		
Damp Heat test	1000 Hours, 93%RH(+/-2%), +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	<1.0% after 2 years at 40°C				
Capacitance Temperature Coefficient	+400 ppm/°C, ±200ppm/°C				
Dielectric Strength	<b>Terminal to Terminal</b>				
	160% of VDC applied for 2 Seconds and 25°C				
Dielectric Construction	Polyester Metallized film				
Coating	Flame Retardant epoxy resin (UL94V0)				
Leads	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

# MMR

## Small Size Epoxy Dipped Metallized Polyester Radial lead

Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.01	103MMR250K	80	10.5x7.5x4.5	7.5	0.6
0.01	103MMR400K	190	10.5x7.5x4.5	7.5	0.6
0.01	103MMR630K	200	13x8x5	10	0.6
0.015	153MMR250K	80	10.5x7.5x4.5	7.5	0.6
0.015	153MMR400K	190	10.5x8x4.5	7.5	0.6
0.015	153MMR630K	200	13x9x5.5	10	0.6
0.022	223MMR250K	80	10.5x7.5x4.5	7.5	0.6
0.022	223MMR400K	190	10.5x8.5x5	7.5	0.6
0.022	223MMR630K	200	12.5x11.5x6	10	0.6
0.033	333MMR250K	80	10.5x7.5x4.5	7.5	0.6
0.033	333MMR400K	190	10.5x9.5x6	7.5	0.6
0.033	333MMR630K	200	12.5x12.5x7	10	0.6
0.047	473MMR250K	80	10.5x8x4.5	7.5	0.6
0.047	473MMR400K	160	13x9x5	10	0.6
0.047	473MMR630K	200	12.5x14x7.5	10	0.6
0.068	683MMR250K	80	10.5x8x5	7.5	0.6
0.068	683MMR400K	160	12.5x11x5.5	10	0.6
0.068	683MMR630K	90	18.5x11.5x6	15	0.8
0.1	104MMR250K	80	10.5x10x6	7.5	0.6
0.1	104MMR400K	160	12.5x12x6.5	10	0.6
0.1	104MMR630K	90	18.5x14.5x7	15	0.8
0.15	154MMR250K	80	10.5x11x6.5	7.5	0.6
0.15	154MMR400K	65	18.5x11.5x5.5	15	0.8
0.15	154MMR630K	90	18.5x15.5x8	15	0.8
0.22	224MMR250K	110	12.5x11x6	10	0.6
0.22	224MMR400K	65	18.5x13.5x6	15	0.8
0.22	224MMR630K	90	18.5x16.5x9	15	0.8
0.33	334MMR250K	110	12.5x12x6.5	10	0.6

Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.33	334MMR400K	65	18.5x15x7.5	15	0.8
0.33	334MMR630K	35	26x17x8.5	22.5	0.8
0.47	474MMR250K	45	18.5x13x5.5	15	0.8
0.47	474MMR400K	65	18.5x17.5x8.5	15	0.8
0.47	474MMR630K	35	26x19x10	22.5	0.8
0.68	684MMR250K	45	18.5x13.5x6	15	0.8
0.68	684MMR400K	30	26x17x7.5	22.5	0.8
0.68	684MMR630K	35	26x21.5x12	22.5	0.8
1	105MMR100K	30	12.5x14.5x7	10	0.6
1	105MMR250K	45	18.5x15x8	15	0.8
1	105MMR400K	30	26x18.5x10	22.5	0.8
1	105MMR630K	30	31x22x13	27.5	0.8
1.5	155MMR100K	20	18.5x13.5x6	15	0.8
1.5	155MMR250K	45	18.5x17x9.5	15	0.8
1.5	155MMR400K	25	31x19.5x10	27.5	0.8
1.5	155MMR630K	30	31x25.5x16	27.5	0.8
2.2	225MMR100K	20	18.5x15x7	15	0.8
2.2	225MMR250K	20	26x17x8.5	22.5	0.8
2.2	225MMR400K	25	31x22.5x12	27.5	0.8
2.2	225MMR630K	30	31x29.5x20	27.5	0.8
3.3	335MMR100K	20	18.5x16.5x8.5	15	0.8
3.3	335MMR250K	20	26x18.5x10.5	22.5	0.8
4.7	475MMR100K	10	26x17x7.5	22.5	0.8
4.7	475MMR250K	20	26x22x12	22.5	0.8
6.8	685MMR100K	10	26x18.5x9	22.5	0.8
6.8	685MMR250K	15	31x23x13	27.5	0.8
10	106MMR100K	10	26x21x11.5	22.5	0.8
10	106MMR250K	15	31x26.5x16.5	27.5	0.8