

MMR

Radial leaded metallized polyester film capacitors



Features

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

Applications

- General Purpose
- Bypass
- Coupling
- Blocking

Operating Temperature Range	-40°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
	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	Terminal to Terminal				
	160% of VDC applied for 2 Seconds and 25°C				
Dielectric	Polyester				
Construction	Metallized film				
Coating	Flame Retardant epoxy resin (UL94V0)				
Leads	Lead free tinned copper leads				

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Radial Leaded
metallized polyester
film Capacitors

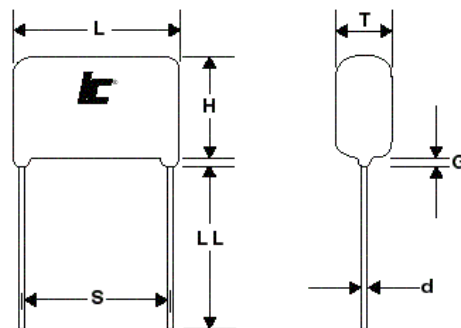
Standard part list

Capacitance (μF)	WVDC	IC PART #	dv/dt (V/μs)	Dimensions LxHxT (mm)
0.01	250	103MMR250K	80	10.5x7.5x4.5
0.01	400	103MMR400K	190	10.5x7.5x4.5
0.01	630	103MMR630K	200	12.5x8x5
0.015	250	153MMR250K	80	10.5x7.5x4.5
0.015	400	153MMR400K	190	10.5x8x4.5
0.015	630	153MMR630K	200	12.5x9x5.5
0.022	250	223MMR250K	80	10.5x7.5x4.5
0.022	400	223MMR400K	190	10.5x8.5x5
0.022	630	223MMR630K	200	12.5x11x6
0.033	250	333MMR250K	80	10.5x7.5x4.5
0.033	400	333MMR400K	190	10.5x9.5x6
0.033	630	333MMR630K	200	12.5x12.5x7
0.047	250	473MMR250K	80	10.5x8x4.5
0.047	400	473MMR400K	160	13x9x5
0.047	630	473MMR630K	200	12.5x14x7.5
0.068	250	683MMR250K	80	10.5x8x5
0.068	400	683MMR400K	160	12.5x11x5.5
0.068	630	683MMR630K	90	18.5x11.5x6
0.1	250	104MMR250K	80	10.5x10x6
0.1	400	104MMR400K	160	12.5x12x6.5
0.1	630	104MMR630K	90	18.5x14.5x7
0.15	250	154MMR250K	80	10.5x11x6.5
0.15	400	154MMR400K	65	18.5x11.5x5.5
0.15	630	154MMR630K	90	18.5x15.5x8
0.22	250	224MMR250K	110	12.5x11x6
0.22	400	224MMR400K	65	18.5x13.5x6
0.22	630	224MMR630K	90	18.5x16.5x9
0.33	250	334MMR250K	110	12.5x12x6.5
0.33	400	334MMR400K	65	18.5x15x7.5

Capacitance (μF)	WVDC	IC PART #	dv/dt (V/μs)	Dimensions LxHxT (mm)
0.33	400	334MMR400K	65	18.5x15x7.5
0.33	630	334MMR630K	35	26x17x8.5
0.47	250	474MMR250K	45	18.5x13x5.5
0.47	400	474MMR400K	65	18.5x17.5x8.5
0.47	630	474MMR630K	35	26x19x10
0.68	250	684MMR250K	45	18.5x13.5x6
0.68	400	684MMR400K	30	26x17x7.5
0.68	630	684MMR630K	35	26x21.5x12
1	100	105MMR100K	30	12.5x14.5x7
1	250	105MMR250K	45	18.5x15x8
1	400	105MMR400K	30	26x18.5x10
1	630	105MMR630K	30	31x22x13
1.5	100	155MMR100K	20	18.5x13.5x6
1.5	250	155MMR250K	45	18.5x17x9.5
1.5	400	155MMR400K	25	31x19.5x10
1.5	630	155MMR630K	30	31x25.5x16
2.2	100	225MMR100K	20	18.5x15x7
2.2	250	225MMR250K	20	26x17x8.5
2.2	400	225MMR400K	25	30x20.5x10
2.2	630	225MMR630K	30	31x29.5x20
3.3	100	335MMR100K	20	18.5x16.5x8.5
3.3	250	335MMR250K	20	26x18.5x10.5
4.7	100	475MMR100K	10	26x17x7.5
4.7	250	475MMR250K	20	26x22x12
6.8	100	685MMR100K	10	26x18.5x9
6.8	250	685MMR250K	15	31x23x13
10	100	106MMR100K	10	26x21x11.5
10	250	106MMR250K	15	31x26.5x16.5

WVDC (VAC) / μF	100 (63)	250 (160)	400 (200)	630 (220)
0.01	----->	10.5x7.5x4.5	10.5x7.5x4.5	12.5x8x5
0.015	----->	10.5x7.5x4.5	10.5x8x4.5	12.5x9x5.5
0.022	----->	10.5x7.5x4.5	10.5x8.5x5	12.5x11.5x6
0.033	----->	10.5x7.5x4.5	10.5x9.5x6	12.5x12.5x7
0.047	----->	10.5x8x4.5	13x9x5	12.5x14x7.5
0.068	----->	10.5x8x5	12.5x11x5.5	18.5x11.5x6
0.1	----->	10.5x10x6	12.5x12x6.5	18.5x14.5x7
0.15	----->	10.5x11x6.5	18.5x11.5x5.5	18.5x15.5x8
0.22	----->	12.5x11x6	18.5x13.5x6	18.5x16.5x9
0.33	----->	12.5x12x6.5	18.5x15x7.5	26x17x8.5
0.47	----->	18.5x13x5.5	18.5x17.5x8.5	26x19x10
0.68	----->	18.5x13.5x6	26x17x7.5	26x21.5x12
1	12.5x14.5x7	18.5x15x8	26x18.5x10	31x22x13
1.5	18.5x13.5x6	18.5x17x9.5	31x19.5x10	31x25.5x16
2.2	18.5x15x7	26x17x8.5	30x20.5x10	31x29.5x20
3.3	18.5x16.5x8.5	26x18.5x10.5		
4.7	26x17x7.5	26x22x12		
6.8	26x18.5x9	31x23x13		
10	26x21x11.5	31x26.5x16.5		

LxHxT (mm)



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