

MTB

Radial leaded metallized polyester film capacitors



Features

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

Applications

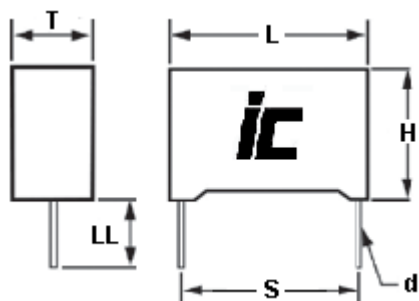
- General Purpose
- Bypass
- Coupling
- Blocking

Specifications

Operating Temperature Range	-55°C to +105°C							
Capacitance Tolerance	±10% at 1 kHz, 25°C +5% optional							
Peak, AC voltage (50/60 Hz)	WVDC	63	100	250	400	630	1000	
	VAC	40	63	160	200	220	250	
	For T>+85°C , The voltage must be decreased by 1.25% per °C							
Dissipation Factor (MAX) 25°C	Frequency (kHz)		C≤1uF			C>1uF		
	1		0.8%			1.0%		
	10		1.5%			-		
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	WVDC		Capacitance		Insulation Resistance			
	≤100		≤0.33μF		3750 MΩ			
	>100		>0.33μF		1250 MΩxμF			
	≤100		≤0.33μF		30000 MΩxμF			
	>100		>0.33μF		10000 MΩxμF			
Load Life	2000 Hours, +100°C with 125% of rated voltage							
	Capacitance Change			≤5% of initially measured value				
	Dissipation Factor			≤0.005 at 1kHz and 25°C for C≤1uF ≤0.003 at 1kHz and 25°C for C>1uF				
	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				
Reliability (1 FIT= 1 failure per billion components hours)	5 Fit at 50% of rated voltage and +40°C							
	Capacitance Change			≤2% of initially measured value				
	Dissipation Factor			≤0.005 at 10kHz and 25°C for C≤1uF ≤0.003 at 1kHz and 25°C for C>1uF				
	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 plastic box (UL94V-1) and epoxy resin (UL94V0)							
Leads	Lead free tinned copper leads							



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L MAX	18	26.5	32	42.5
S $\pm$ 1.0	15	22.5	27.5	37.5
LL	5 $\pm$ 1.0	5 $\pm$ 1.0	5 $\pm$ 1.0	30 $\pm$ 5.0
d $\pm$ 0.05	0.6	0.6	0.8	1.0

MTB

Metallized Polyester Radial Lead Box

Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.022	223MTB102KE	40	18x11x5	15	0.8
0.033	333MTB630KE	25	18x11x5	15	0.8
0.033	333MTB102KE	40	18x12x6	15	0.8
0.047	473MTB400KE	20	18x11x5	15	0.8
0.047	473MTB630KE	25	18x11x5	15	0.8
0.047	473MTB102KE	40	18x13.5x7.5	15	0.8
0.068	683MTB400KE	20	18x11x5	15	0.8
0.068	683MTB630KE	25	18x12x6	15	0.8
0.068	683MTB102KE	40	18x14.5x8.5	15	0.8
0.068	683MTB102KG	33	26.5x15x6	22.5	0.8
0.1	104MTB250KE	12	18x11x5	15	0.8
0.1	104MTB400KE	20	18x11x5	15	0.8
0.1	104MTB630KE	25	18x13.5x7.5	15	0.8
0.1	104MTB630KG	14	26.5x15x6	22.5	0.8
0.1	104MTB102KE	40	18x16x10	15	0.8
0.1	104MTB102KG	33	26.5x16x7	22.5	0.8
0.15	154MTB250KE	12	18x11x5	15	0.8
0.15	154MTB400KE	20	18x11x5	15	0.8
0.15	154MTB630KE	25	18x14.5x8.5	15	0.8
0.15	154MTB630KG	14	26.5x15x6	22.5	0.8
0.15	154MTB102KG	33	26.5x17x8.5	22.5	0.8
0.22	224MTB250KE	12	18x11x5	15	0.8
0.22	224MTB400KE	20	18x12x6	15	0.8
0.22	224MTB400KG	13	26.5x15x6	22.5	0.8
0.22	224MTB630KG	14	26.5x16x7	22.5	0.8
0.22	224MTB102KG	33	26.5x20x11	22.5	0.8
0.22	224MTB102KH	20	32x17x9	27.5	0.8
0.33	334MTB100KE	5	18x11x5	15	0.8
0.33	334MTB160KE	9	18x11x5	15	0.8
0.33	334MTB250KE	12	18x11x5	15	0.8
0.33	334MTB400KE	20	18x13.5x7.5	15	0.8
0.33	334MTB400KG	13	26.5x15x6	22.5	0.8
0.33	334MTB630KG	14	26.5x18.5x10	22.5	0.8
0.33	334MTB630KH	10	32x17x9	27.5	0.8
0.33	334MTB102KH	20	32x20x11	27.5	0.8
0.47	474MTB100KE	5	18x11x5	15	0.8
0.47	474MTB250KE	12	18x12x6	15	0.8
0.47	474MTB250KG	8	26.5x15x6	22.5	0.8
0.47	474MTB400KE	20	18x14.5x8.5	15	0.8
0.47	474MTB400KG	13	26.5x15x6	22.5	0.8
0.47	474MTB630KH	10	32x20x11	27.5	0.8
0.47	474MTB102KH	20	32x24.5x15	27.5	0.8
0.68	684MTB063KE	3	18x11x5	15	0.8
0.68	684MTB100KE	5	18x11x5	15	0.8
0.68	684MTB250KE	12	18x13.5x7.5	15	0.8
0.68	684MTB250KG	8	26.5x15x6	22.5	0.8
0.68	684MTB400KG	13	26.5x16x7	22.5	0.8
0.68	684MTB400KH	8.5	32x17x9	27.5	0.8
0.68	684MTB630KH	10	32x22x13	27.5	0.8
0.68	684MTB102KH	20	32x33x18	27.5	0.8
1	105MTB063KE	3	18x11x5	15	0.8
1	105MTB100KE	5	18x11x5	15	0.8
1	105MTB160KE	9	18x13.5x7.5	15	0.8
1	105MTB250KE	12	18x14.5x8.5	15	0.8
1	105MTB250KG	8	26.5x15x6	22.5	0.8
1	105MTB400KG	13	26.5x18.5x10	22.5	0.8
1	105MTB400KH	8.5	32x17x9	27.5	0.8
1	105MTB630KH	10	32x28x14	27.5	0.8

Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
1	105MTB102KH	20	32x33x18	27.5	0.8
1	105MTB102KJ	15	42.5x28x17	37.5	0.8
1.5	155MTB063KE	3	18x11x5	15	0.8
1.5	155MTB100KE	5	18x13.5x7.5	15	0.8
1.5	155MTB100KG	2.5	26.5x15x6	22.5	0.8
1.5	155MTB160KE	9	18x14.5x8.5	15	0.8
1.5	155MTB160KG	6	26.5x15x6	22.5	0.8
1.5	155MTB250KE	12	18x16x10	15	0.8
1.5	155MTB250KG	8	26.5x16x7	22.5	0.8
1.5	155MTB250KH	5	32x17x9	27.5	0.8
1.5	155MTB400KG	13	26.5x20x11	22.5	0.8
1.5	155MTB400KH	8.5	32x20x11	27.5	0.8
1.5	155MTB630KH	10	32x33x18	27.5	0.8
1.5	155MTB102KJ	15	42.5x30x22	37.5	1
2.2	225MTB063KE	3	18x12x6	15	0.8
2.2	225MTB100KE	5	18x14.5x8.5	15	0.8
2.2	225MTB100KG	3	26.5x15x6	22.5	0.8
2.2	225MTB160KE	9	18x16x10	15	0.8
2.2	225MTB160KG	6	26.5x16x7	22.5	0.8
2.2	225MTB250KG	8	26.5x18.5x10	22.5	0.8
2.2	225MTB250KH	5	32x17x9	27.5	0.8
2.2	225MTB400KH	8.5	32x22x13	27.5	0.8
2.2	225MTB630KH	10	32x37x22	27.5	0.8
2.2	225MTB630KJ	8	42.5x28x17	37.5	0.8
2.2	225MTB102KJ	15	42.5x37x28	37.5	1
3.3	335MTB063KE	3	18x13.5x7.5	15	0.8
3.3	335MTB063KG	2	26.5x15x6	22.5	0.8
3.3	335MTB100KE	5	18x16x10	15	0.8
3.3	335MTB100KG	3	26.5x16x7	22.5	0.8
3.3	335MTB160KG	6	26.5x17x8.5	15	0.8
3.3	335MTB160KH	3	32x17x9	27.5	0.8
3.3	335MTB250KG	8	26.5x20x11	22.5	0.8
3.3	335MTB250KH	5	32x20x11	27.5	0.8
3.3	335MTB400KH	8.5	32x28x14	27.5	0.8
3.3	335MTB630KJ	8	42.5x30x22	37.5	1
3.3	335MTB102KJ	15	42.5x45x30	37.5	1.2
4.7	475MTB063KE	3	18x14.5x8.5	15	0.8
4.7	475MTB063KG	2	26.5x16x7	22.5	0.8
4.7	475MTB100KG	3	26.5x17x8.5	22.5	0.8
4.7	475MTB100KH	2	32x17x9	27.5	0.8
4.7	475MTB160KG	6	26.5x20x11	22.5	0.8
4.7	475MTB160KH	3	32x17x9	27.5	0.8
4.7	475MTB250KH	5	32x22x13	27.5	0.8
4.7	475MTB400KH	8.5	32x33x18	27.5	0.8
4.7	475MTB630KJ	8	42.5x37x28	37.5	1
6.8	685MTB063KE	3	18x16x10	15	0.8
6.8	685MTB063KG	2	26.5x16x7	22.5	0.8
6.8	685MTB100KG	3	26.5x18.5x10	22.5	0.8
6.8	685MTB100KH	2	32x17x9	27.5	0.8
6.8	685MTB160KG	6	26.5x22x13	22.5	0.8
6.8	685MTB160KH	3	32x20x11	27.5	0.8
6.8	685MTB250KH	5	32x28x14	27.5	0.8
6.8	685MTB400KH	8.5	32x37x22	27.5	0.8
6.8	685MTB400KJ	6.5	42.5x28x17	37.5	0.8
6.8	685MTB630KJ	8	42.5x45x30	37.5	1.2
10	106MTB063KG	2	26.5x17x8.5	22.5	0.8
10	106MTB063KH	1	32x17x9	27.5	0.8
10	106MTB100KG	3	26.5x22x13	22.5	0.8

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Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
10	106MTB100KH	2	32x20x11	27.5	0.8
10	106MTB160KH	3	32x22x13	27.5	0.8
10	106MTB250KH	5	32x33x18	27.5	0.8
10	106MTB250KJ	4	42.5x28x17	37.5	0.8
10	106MTB400KJ	6.5	42.5x30x22	37.5	1
15	156MTB063KH	2	26.5x22x13	22.5	0.8
15	156MTB063KH	1	32x20x11	27.5	0.8
15	156MTB100KH	2	32x22x13	27.5	0.8
15	156MTB160KH	3	32x28x14	27.5	0.8
15	156MTB250KH	5	32x37x22	27.5	0.8
15	156MTB250KJ	4	42.5x28x17	37.5	0.8
15	156MTB400KJ	6.5	42.5x37x28	37.5	1
22	226MTB063KH	1	32x22x13	27.5	0.8
22	226MTB100KH	2	32x28x14	27.5	0.8
22	226MTB160KH	3	32x37x22	27.5	0.8
22	226MTB160KJ	2.2	42.5x28x17	37.5	0.8
22	226MTB250KJ	4	42.5x30x22	37.5	1
22	226MTB400KJ	6.5	42.5x45x30	37.5	1.2
33	336MTB063KH	1	32x24.5x15	27.5	0.8

Capacitance (μF)	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
33	336MTB100KH	2	32x33x18	27.5	0.8
33	336MTB100KJ	1.2	42.5x28x17	37.5	0.8
33	336MTB160KJ	2.2	42.5x30x22	37.5	1
33	336MTB250KJ	4	42.5x37x28	37.5	1
47	476MTB063KH	1	32x33x18	27.5	0.8
47	476MTB063KJ	0.8	42.5x28x17	37.5	0.8
47	476MTB100KH	2	32x37x22	27.5	0.8
47	476MTB100KJ	1.2	42.5x30x22	37.5	1
47	476MTB160KJ	2.2	42.5x37x28	37.5	1
47	476MTB250KJ	4	42.5x47x30	37.5	1.2
68	686MTB063KH	1	32x37x22	27.5	0.8
68	686MTB063KJ	0.8	42.5x30x22	37.5	1
68	686MTB100KJ	1.2	42.5x37x28	37.5	1
68	686MTB160KJ	1.2	42.5x45x30	37.5	1.2
82	826MTB100KJ	1.2	42.5x45x30	37.5	1.2
82	826MTB160KJ	2.2	42.5x45x30	37.5	1.2
100	107MTB063KJ	0.8	42.5x37x28	37.5	1
150	157MTB063KJ	0.8	42.5x45x30	37.5	1.2