



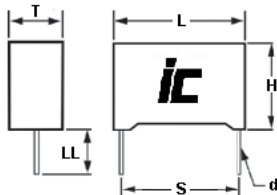
FEATURES

Self Healing - Small Size - Low ESR

APPLICATIONS

General Purpose - Coupling - Bypass - Blocking

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	160	250	400	630	1000	
	VAC	40	63	90	160	200	220	400	
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, +85°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								



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

MTB

Metallized Polyester Radial Lead Box

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
0.022	1000	223MTB102KE	40	18x11x5	15	0.8
0.033	630	333MTB630KE	25	18x11x5	15	0.8
0.033	1000	333MTB102KE	40	18x12x6	15	0.8
0.047	400	473MTB400KE	20	18x11x5	15	0.8
0.047	630	473MTB630KE	25	18x11x5	15	0.8
0.047	1000	473MTB102KE	40	18x13.5x7.5	15	0.8
0.068	400	683MTB400KE	20	18x11x5	15	0.8
0.068	630	683MTB630KE	25	18x12x6	15	0.8
0.068	1000	683MTB102KE	40	18x14.5x8.5	15	0.8
0.068	1000	683MTB102KG	33	26.5x15x6	22.5	0.8
0.1	250	104MTB250KE	12	18x11x5	15	0.8
0.1	400	104MTB400KE	20	18x11x5	15	0.8
0.1	630	104MTB630KE	25	18x13.5x7.5	15	0.8
0.1	630	104MTB630KG	14	26.5x15x6	22.5	0.8
0.1	1000	104MTB102KE	40	18x16x10	15	0.8
0.1	1000	104MTB102KG	33	26.5x16x7	22.5	0.8
0.15	250	154MTB250KE	12	18x11x5	15	0.8
0.15	400	154MTB400KE	20	18x11x5	15	0.8
0.15	630	154MTB630KE	25	18x14.5x8.5	15	0.8
0.15	630	154MTB630KG	14	26.5x15x6	22.5	0.8
0.15	1000	154MTB102KG	33	26.5x17x8.5	22.5	0.8
0.22	250	224MTB250KE	12	18x11x5	15	0.8
0.22	400	224MTB400KE	20	18x12x6	15	0.8
0.22	400	224MTB400KG	13	26.5x15x6	22.5	0.8
0.22	630	224MTB630KG	14	26.5x16x7	22.5	0.8
0.22	1000	224MTB102KG	33	26.5x20x11	22.5	0.8
0.22	1000	224MTB102KH	20	32x17x9	27.5	0.8
0.33	100	334MTB100KE	5	18x11x5	15	0.8
0.33	160	334MTB160KE	9	18x11x5	15	0.8
0.33	250	334MTB250KE	12	18x11x5	15	0.8
0.33	400	334MTB400KE	20	18x13.5x7.5	15	0.8
0.33	400	334MTB400KG	13	26.5x15x6	22.5	0.8
0.33	630	334MTB630KG	14	26.5x18.5x10	22.5	0.8
0.33	630	334MTB630KH	10	32x17x9	27.5	0.8
0.33	1000	334MTB102KH	20	32x20x11	27.5	0.8
0.47	100	474MTB100KE	5	18x11x5	15	0.8
0.47	250	474MTB250KE	12	18x12x6	15	0.8
0.47	250	474MTB250KG	8	26.5x15x6	22.5	0.8
0.47	400	474MTB400KE	20	18x14.5x8.5	15	0.8
0.47	400	474MTB400KG	13	26.5x15x6	22.5	0.8
0.47	630	474MTB630KH	10	32x20x11	27.5	0.8
0.47	1000	474MTB102KH	20	32x24.5x15	27.5	0.8
0.68	63	684MTB063KE	3	18x11x5	15	0.8
0.68	100	684MTB100KE	5	18x11x5	15	0.8
0.68	250	684MTB250KE	12	18x13.5x7.5	15	0.8
0.68	250	684MTB250KG	8	26.5x15x6	22.5	0.8
0.68	400	684MTB400KG	13	26.5x16x7	22.5	0.8
0.68	400	684MTB400KH	8.5	32x17x9	27.5	0.8
0.68	630	684MTB630KH	10	32x22x13	27.5	0.8
0.68	1000	684MTB102KH	20	32x33x18	27.5	0.8
1	63	105MTB063KE	3	18x11x5	15	0.8
1	100	105MTB100KE	5	18x11x5	15	0.8
1	160	105MTB160KE	9	18x13.5x7.5	15	0.8
1	250	105MTB250KE	12	18x14.5x8.5	15	0.8
1	250	105MTB250KG	8	26.5x15x6	22.5	0.8
1	400	105MTB400KG	13	26.5x18.5x10	22.5	0.8
1	400	105MTB400KH	8.5	32x17x9	27.5	0.8
1	630	105MTB630KH	10	32x28x14	27.5	0.8

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
1	1000	105MTB102KH	20	32x33x18	27.5	0.8
1	1000	105MTB102KJ	15	42.5x28x17	37.5	0.8
1.5	63	155MTB063KE	3	18x11x5	15	0.8
1.5	100	155MTB100KE	5	18x13.5x7.5	15	0.8
1.5	100	155MTB100KG	2.5	26.5x15x6	22.5	0.8
1.5	160	155MTB160KE	9	18x14.5x8.5	15	0.8
1.5	160	155MTB160KG	6	26.5x15x6	22.5	0.8
1.5	250	155MTB250KE	12	18x16x10	15	0.8
1.5	250	155MTB250KG	8	26.5x16x7	22.5	0.8
1.5	250	155MTB250KH	5	32x17x9	27.5	0.8
1.5	400	155MTB400KG	13	26.5x20x11	22.5	0.8
1.5	400	155MTB400KH	8.5	32x20x11	27.5	0.8
1.5	630	155MTB630KH	10	32x33x18	27.5	0.8
1.5	1000	155MTB102KJ	15	42.5x30x22	37.5	1
2.2	63	225MTB063KE	3	18x12x6	15	0.8
2.2	100	225MTB100KE	5	18x14.5x8.5	15	0.8
2.2	100	225MTB100KG	3	26.5x15x6	22.5	0.8
2.2	160	225MTB160KE	9	18x16x10	15	0.8
2.2	160	225MTB160KG	6	26.5x16x7	22.5	0.8
2.2	250	225MTB250KG	8	26.5x18.5x10	22.5	0.8
2.2	250	225MTB250KH	5	32x17x9	27.5	0.8
2.2	400	225MTB400KH	8.5	32x22x13	27.5	0.8
2.2	630	225MTB630KH	10	32x37x22	27.5	0.8
2.2	630	225MTB630KJ	8	42.5x28x17	37.5	0.8
2.2	1000	225MTB102KJ	15	42.5x37x28	37.5	1
3.3	63	335MTB063KE	3	18x13.5x7.5	15	0.8
3.3	63	335MTB063KG	2	26.5x15x6	22.5	0.8
3.3	100	335MTB100KE	5	18x16x10	15	0.8
3.3	100	335MTB100KG	3	26.5x16x7	22.5	0.8
3.3	160	335MTB160KG	6	26.5x17x8.5	15	0.8
3.3	160	335MTB160KH	3	32x17x9	27.5	0.8
3.3	250	335MTB250KG	8	26.5x20x11	22.5	0.8
3.3	250	335MTB250KH	5	32x20x11	27.5	0.8
3.3	400	335MTB400KH	8.5	32x28x14	27.5	0.8
3.3	630	335MTB630KJ	8	42.5x30x22	37.5	1
3.3	1000	335MTB102KJ	15	42.5x45x30	37.5	1.2
4.7	63	475MTB063KE	3	18x14.5x8.5	15	0.8
4.7	63	475MTB063KG	2	26.5x16x7	22.5	0.8
4.7	100	475MTB100KG	3	26.5x17x8.5	22.5	0.8
4.7	100	475MTB100KH	2	32x17x9	27.5	0.8
4.7	160	475MTB160KG	6	26.5x20x11	22.5	0.8
4.7	160	475MTB160KH	3	32x17x9	27.5	0.8
4.7	250	475MTB250KH	5	32x22x13	27.5	0.8
4.7	400	475MTB400KH	8.5	32x33x18	27.5	0.8
4.7	630	475MTB630KJ	8	42.5x37x28	37.5	1
6.8	63	685MTB063KE	3	18x16x10	15	0.8
6.8	63	685MTB063KG	2	26.5x16x7	22.5	0.8
6.8	100	685MTB100KG	3	26.5x18.5x10	22.5	0.8
6.8	100	685MTB100KH	2	32x17x9	27.5	0.8
6.8	160	685MTB160KG	6	26.5x22x13	22.5	0.8
6.8	160	685MTB160KH	3	32x20x11	27.5	0.8
6.8	250	685MTB250KH	5	32x28x14	27.5	0.8
6.8	400	685MTB400KH	8.5	32x37x22	27.5	0.8
6.8	400	685MTB400KJ	6.5	42.5x28x17	37.5	0.8
6.8	630	685MTB630KJ	8	42.5x45x30	37.5	1.2
10	63	106MTB063KG	2	26.5x17x8.5	22.5	0.8
10	63	106MTB063KH	1	32x17x9	27.5	0.8
10	100	106MTB100KG	3	26.5x22x13	22.5	0.8

MTB

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Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
10	100	106MTB100KH	2	32x20x11	27.5	0.8
10	160	106MTB160KH	3	32x22x13	27.5	0.8
10	250	106MTB250KH	5	32x33x18	27.5	0.8
10	250	106MTB250KJ	4	42.5x28x17	37.5	0.8
10	400	106MTB400KJ	6.5	42.5x30x22	37.5	1
15	63	156MTB063KG	2	26.5x22x13	22.5	0.8
15	63	156MTB063KH	1	32x20x11	27.5	0.8
15	100	156MTB100KH	2	32x22x13	27.5	0.8
15	160	156MTB160KH	3	32x28x14	27.5	0.8
15	250	156MTB250KH	5	32x37x22	27.5	0.8
15	250	156MTB250KJ	4	42.5x28x17	37.5	0.8
15	400	156MTB400KJ	6.5	42.5x37x28	37.5	1
22	63	226MTB063KH	1	32x22x13	27.5	0.8
22	100	226MTB100KH	2	32x28x14	27.5	0.8
22	160	226MTB160KH	3	32x37x22	27.5	0.8
22	160	226MTB160KJ	2.2	42.5x28x17	37.5	0.8
22	250	226MTB250KJ	4	42.5x30x22	37.5	1
22	400	226MTB400KJ	6.5	42.5x45x30	37.5	1.2
33	63	336MTB063KH	1	32x24.5x15	27.5	0.8

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
33	100	336MTB100KH	2	32x33x18	27.5	0.8
33	100	336MTB100KJ	1.2	42.5x28x17	37.5	0.8
33	160	336MTB160KJ	2.2	42.5x30x22	37.5	1
33	250	336MTB250KJ	4	42.5x37x28	37.5	1
47	63	476MTB063KH	1	32x33x18	27.5	0.8
47	63	476MTB063KJ	0.8	42.5x28x17	37.5	0.8
47	100	476MTB100KH	2	32x37x22	27.5	0.8
47	100	476MTB100KJ	1.2	42.5x30x22	37.5	1
47	160	476MTB160KJ	2.2	42.5x37x28	37.5	1
47	250	476MTB250KJ	4	42.5x47x30	37.5	1.2
68	63	686MTB063KH	1	32x37x22	27.5	0.8
68	63	686MTB063KJ	0.8	42.5x30x22	37.5	1
68	100	686MTB100KJ	1.2	42.5x37x28	37.5	1
68	160	686MTB160KJ	1.2	42.5x45x30	37.5	1.2
82	100	826MTB100KJ	1.2	42.5x45x30	37.5	1.2
82	160	826MTB160KJ	2.2	42.5x45x30	37.5	1.2
100	63	107MTB063KJ	0.8	42.5x37x28	37.5	1
150	63	157MTB063KJ	0.8	42.5x45x30	37.5	1.2