MTB

Metallized Polyester Film Capacitors

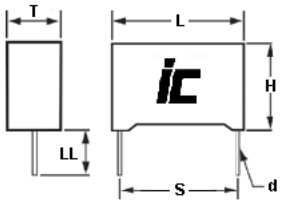
For General Purpose Applications



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 Leads								

Special Order Options



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

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Metallized Polyester Radial Lead Box

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
63	0.68	684MTB063KE	3	18x11x5	15	0.8
63	1	105MTB063KE1	3	18x11x5	15	0.8
63	1.5	55MTB063KE	3	18x11x5	15	0.8
63	2.2	225MTB063KE	3	18x12x6	15	0.8
63	3.3	335MTB063KE	3	18x13.5x7.5	15	0.8
63	3.3	335MTB063KG	2	26.5x15x6	22.5	0.8
63	4.7	475MTB063KE	3	18x14.5x8.5	15	0.8
63	4.7	475MTB063KG	2	26.5x16x7	22.5	0.8
63	6.8	685MTB063KE	3	18x16x10	15	0.8
63	6.8	685MTB063KG	2	26.5x16x7	22.5	0.8
63	10	106MTB063KG	2	26.5x17x8.5	22.5	0.8
63	10	106MTB063KH	1	32x17x9	27.5	0.8
63	15	156MTB063KG	2	26.5x22x13	22.5	0.8
63	15	156MTB063KH	1	32x20x11	27.5	0.8
63	22	226MTB063KH	1	32x22x13	27.5	0.8
63	33	336MTB063KH	1	32x24.5x15	27.5	0.8
63	47	476MTB063KH	1	32x33x18	27.5	0.8
63	47	476MTB063KJ	0.8	42.5x28x17	37.5	0.8
63	68	686MTB063KH	1	32x37x22	27.5	0.8
63	68	686MTB063KJ	0.8	42.5x30x22	37.5	1
63	100	107MTB063KJ	0.8	42.5x37x28	37.5	1
63	150	157MTB063KJ	0.8	42.5x45x30	37.5	1.2
100	0.33	334MTB100KE	5	18x11x5	15	0.8
100	0.47	474MTB100KE	5	18x11x5	15	0.8
100	0.68	684MTB100KE	5	18x11x5	15	0.8
100	1	105MTB100KE	5	18x11x5	15	0.8
100	1.5	155MTB100KE	5	18x13.5x7.5	15	0.8
100	1.5	155MTB100KG	2.5	26.5x15x6	22.5	0.8
100	2.2	225MTB100KE	5	18x14.5x8.5	15	0.8
100	2.2	225MTB100KG	3	26.5x15x6	22.5	0.8
100	3.3	335MTB100KE	5	18x16x10	15	0.8
100	3.3	335MTB100KG	3	26.5x16x7	22.5	0.8
100	4.7	475MTB100KG	3	26.5x17x8.5	22.5	0.8
100	4.7	475MTB100KH	2	32x17x9	27.5	0.8
100	6.8	685MTB100KG	3	26.5x18.5x10	22.5	0.8
100	6.8	685MTB100KH	2	32x17x9	27.5	0.8
100	10	106MTB100KG	3	26.5x22x13	22.5	0.8
100	10	106MTB100KH	2	32x20x11	27.5	0.8
100	15	156MTB100KH	2	32x22x13	27.5	0.8
100	22	226MTB100KH	2	32x28x14	27.5	0.8
100	33	336MTB100KH	2	32x33x18	27.5	0.8
100	33	336MTB100KJ	1.2	42.5x28x17	37.5	0.8
100	47	476MTB100KH	2	32x37x22	27.5	0.8
100	47	476MTB100KJ	1.2	42.5x30x22	37.5	1
100	68	686MTB100KJ	1.2	42.5x37x28	37.5	1
100	82	826MTB100KJ	1.2	42.5x45x30	37.5	1.2
160	0.33	334MTB160KE	9	18x11x5	15	0.8
160	1	105MTB160KE	9	18x13.5x7.5	15	0.8
160	1.5	155MTB160KE	9	18x14.5x8.5	15	0.8
160	1.5	155MTB160KG	6	26.5x15x6	22.5	0.8
160	2.2	225MTB160KE	9	18x16x10	15	0.8
160	2.2	225MTB160KG	6	26.5x16x7	22.5	0.8
160	3.3	335MTB160KG	6	26.5x17x8.5	15	0.8
160	3.3	335MTB160KH	3	32x17x9	27.5	0.8
160	4.7	475MTB160KG	6	26.5x20x11	22.5	0.8
160	4.7	475MTB160KH	3	32x17x9	27.5	0.8
160	6.8	685MTB160KG	6	26.5x22x13	22.5	0.8
160	6.8	685MTB160KH	3	32x20x11	27.5	0.8

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
160	10	106MTB160KH	3	32x22x13	27.5	0.8
160	15	156MTB160KH	3	32x28x14	27.5	0.8
160	22	226MTB160KH	3	32x37x22	27.5	0.8
160	22	226MTB160KJ	2.2	42.5x28x17	37.5	0.8
160	33	336MTB160KJ	2.2	42.5x30x22	37.5	1
160	47	476MTB160KJ	2.2	42.5x37x28	37.5	1
160	68	686MTB160KJ	1.2	42.5x45x30	37.5	1.2
160	82	826MTB160KJ	2.2	42.5x45x30	37.5	1.2
250	0.1	104MTB250KE	12	18x11x5	15	0.8
250	0.15	154MTB250KE	12	18x11x5	15	0.8
250	0.22	224MTB250KE	12	18x11x5	15	0.8
250	0.33	334MTB250KE	12	18x11x5	15	0.8
250	0.47	474MTB250KE	12	18x12x6	15	0.8
250	0.47	474MTB250KG	8	26.5x15x6	22.5	0.8
250	0.68	684MTB250KE	12	18x13.5x7.5	15	0.8
250	0.68	684MTB250KG	8	26.5x15x6	22.5	0.8
250	1	105MTB250KE	12	18x14.5x8.5	15	0.8
250	1	105MTB250KG	8	26.5x15x6	22.5	0.8
250	1.5	155MTB250KE	12	18x16x10	15	0.8
250	1.5	155MTB250KG	8	26.5x16x7	22.5	0.8
250	1.5	155MTB250KH	5	32x17x9	27.5	0.8
250	2.2	225MTB250KG	8	26.5x18.5x10	22.5	0.8
250	2.2	225MTB250KH	5	32x17x9	27.5	0.8
250	3.3	335MTB250KG	8	26.5x20x11	22.5	0.8
250	3.3	335MTB250KH	5	32x20x11	27.5	0.8
250	4.7	475MTB250KH	5	32x22x13	27.5	0.8
250	6.8	685MTB250KH	5	32x28x14	27.5	0.8
250	10	106MTB250KH	5	32x33x18	27.5	0.8
250	10	106MTB250KJ	4	42.5x28x17	37.5	0.8
250	15	156MTB250KH	5	32x37x22	27.5	0.8
250	15	156MTB250KJ	4	42.5x28x17	37.5	0.8
250	22	226MTB250KJ	4	42.5x30x22	37.5	1
250	33	336MTB250KJ	4	42.5x37x28	37.5	1
250	47	476MTB250KJ	4	42.5x47x30	37.5	1.2
400	0.047	473MTB400KE	20	18x11x5	15	0.8
400	0.068	683MTB400KE	20	18x11x5	15	0.8
400	0.1	104MTB400KE	20	18x11x5	15	0.8
400	0.15	154MTB400KE	20	18x11x5	15	0.8
400	0.22	224MTB400KE	20	18x12x6	15	0.8
400	0.22	224MTB400KG	13	26.5x15x6	22.5	0.8
400	0.33	334MTB400KE	20	18x13.5x7.5	15	0.8
400	0.33	334MTB400KG	13	26.5x15x6	22.5	0.8
400	0.47	474MTB400KE	20	18x14.5x8.5	15	0.8
400	0.47	474MTB400KG	13	26.5x15x6	22.5	0.8
400	0.68	684MTB400KG	13	26.5x16x7	22.5	0.8
400	0.68	684MTB400KH	8.5	32x17x9	27.5	0.8
400	1	105MTB400KG	13	26.5x18.5x10	22.5	0.8
400	1	105MTB400KH	8.5	32x17x9	27.5	0.8
400	1.5	155MTB400KG	13	26.5x20x11	22.5	0.8
400	1.5	155MTB400KH	8.5	32x20x11	27.5	0.8
400	2.2	225MTB400KH	8.5	32x22x13	27.5	0.8
400	3.3	335MTB400KH	8.5	32x28x14	27.5	0.8
400	4.7	475MTB400KH	8.5	32x33x18	27.5	0.8
400	6.8	685MTB400KH	8.5	32x37x22	27.5	0.8
400	6.8	685MTB400KJ	6.5	42.5x28x17	37.5	0.8
400	10	106MTB400KJ	6.5	42.5x30x22	37.5	1
400	15	156MTB400KJ	6.5	42.5x37x28	37.5	1
400	22	226MTB400KJ	6.5	42.5x45x30	37.5	1.2

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WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
630	0.033	333MTB630KE	25	18x11x5	15	0.8
630	0.047	473MTB630KE	25	18x11x5	15	0.8
630	0.068	683MTB630KE	25	18x12x6	15	0.8
630	0.1	104MTB630KE	25	18x13.5x7.5	15	0.8
630	0.1	104MTB630KG	14	26.5x15x6	22.5	0.8
630	0.15	154MTB630KE	25	18x14.5x8.5	15	0.8
630	0.15	154MTB630KG	14	26.5x15x6	22.5	0.8
630	0.22	224MTB630KG	14	26.5x16x7	22.5	0.8
630	0.33	334MTB630KG	14	26.5x18.5x10	22.5	0.8
630	0.33	334MTB630KH	10	32x17x9	27.5	0.8
630	0.47	474MTB630KH	10	32x20x11	27.5	0.8
630	0.68	684MTB630KH	10	32x22x13	27.5	0.8
630	1	105MTB630KH	10	32x28x14	27.5	0.8
630	1.5	155MTB630KH	10	32x33x18	27.5	0.8
630	2.2	225MTB630KH	10	32x37x22	27.5	0.8
630	2.2	225MTB630KJ	8	42.5x28x17	37.5	0.8
630	3.3	335MTB630KJ	8	42.5x30x22	37.5	1
630	4.7	475MTB630KJ	8	42.5x37x28	37.5	1
630	6.8	685MTB630KJ	8	42.5x45x30	37.5	1.2

WVDC	Capacitance (µF)	IC PART NUMBER	dv/dt (v/µ sec.)	Dims LxHxT (mm)	S (MM)	d (MM)
1000	0.022	223MTB102KE	40	18x11x5	15	0.8
1000	0.033	333MTB102KE	40	18x12x6	15	0.8
1000	0.047	473MTB102KE	40	18x13.5x7.5	15	0.8
1000	0.068	683MTB102KE	40	18x14.5x8.5	15	0.8
1000	0.068	683MTB102KG	33	26.5x15x6	22.5	0.8
1000	0.1	104MTB102KE	40	18x16x10	15	0.8
1000	0.1	104MTB102KG	33	26.5x16x7	22.5	0.8
1000	0.15	154MTB102KG	33	26.5x17x8.5	22.5	0.8
1000	0.22	224MTB102KG	33	26.5x20x11	22.5	0.8
1000	0.22	224MTB102KH	20	32x17x9	27.5	0.8
1000	0.33	334MTB102KH	20	32x20x11	27.5	0.8
1000	0.47	474MTB102KH	20	32x24.5x15	27.5	0.8
1000	0.68	684MTB102KH	20	32x33x18	27.5	0.8
1000	1	105MTB102KH	20	32x33x18	27.5	0.8
1000	1	105MTB102KJ	15	42.5x28x17	37.5	0.8
1000	1.5	155MTB102KJ	15	42.5x30x22	37.5	1
1000	2.2	225MTB102KJ	15	42.5x37x28	37.5	1
1000	3.3	335MTB102KJ	15	42.5x45x30	37.5	1.2

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