

MTR

Reduced size Axial leaded metallized polyester film capacitors



Features

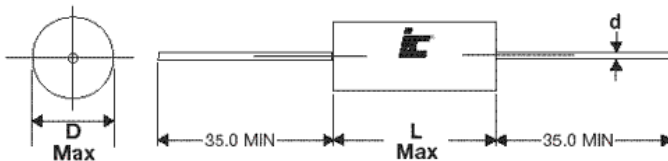
- Self Healing
- Low ESR
- Small size
- Low cost

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	400
For T>+85°C, The voltage must be decreased by 1.25% per °C							
Dissipation Factor (MAX) 25°C	Frequency (kHz)	C≤0.1uF		0.1uF<C≤1.0uF		1uF<C≤68uF	C>68uF
	1	0.8%		0.8%		1.0%	1.1%
	10	1.5%		1.5%		-	-
	100	3.0%		-		-	-
Insulation Resistance @25°C (<70% RH)for 1 minute at 100VDC applied	WVDC	Capacitance			Insulation Resistance		
	≤100WVDC	≤0.33μF			3750 MΩ		
	>100WVDC	≤0.33μF			30000 MΩxμF		
	≤100WVDC	>0.33μF			1250 MΩxμF		
	>100WVDC	>0.33μF			10000 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 for C≤1uF ≤0.005 at 1kHz and 25°C For C>1uF					
	Insulation Resistance	≥50% of maximum specified value					
Damp Heat test	56 days at40°C with 93%RH(+/-2%), +40°C and no voltage applied						
	Capacitance Change	≤5% of initially measured value					
	Dissipation Factor	≤.005 at 1kHz					
	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 Construction	Polyester						
Coating	Metallized film Internal series connected (≥1000WVDC)						
Leads	Flame Retardant Polyester tape wrap (UL 510) with epoxy resin end fills(UL94V0) Lead free tinned copper leads						

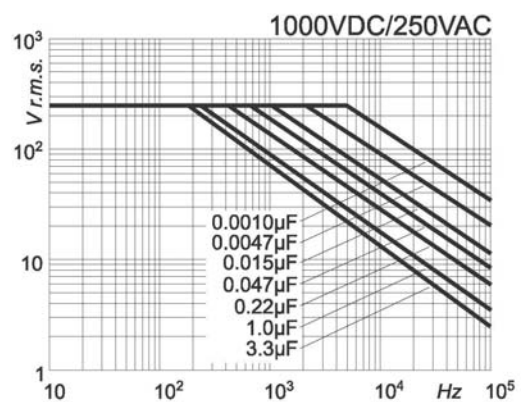
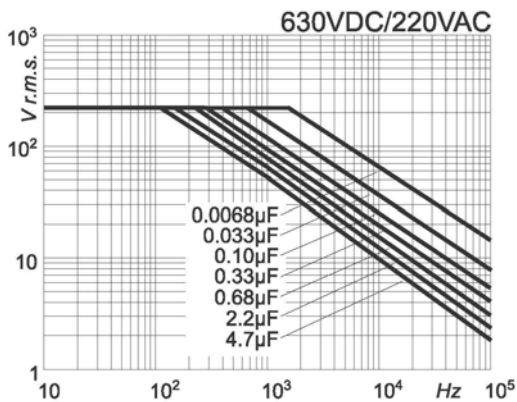
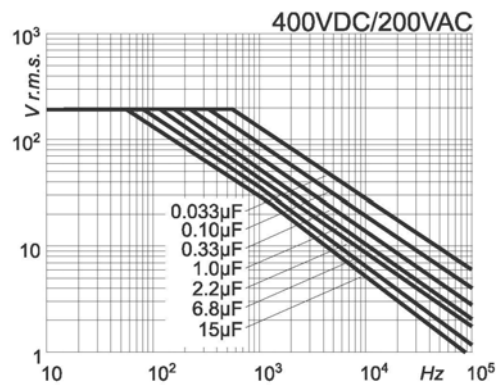
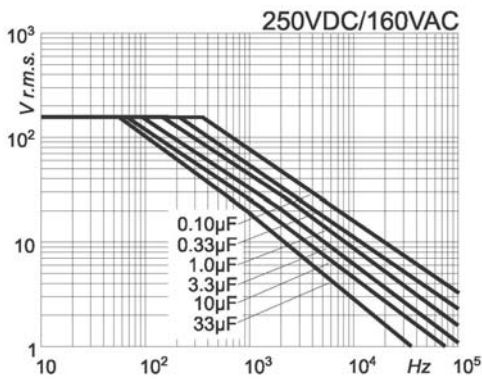
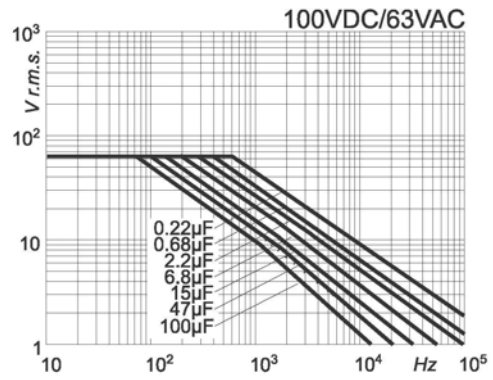
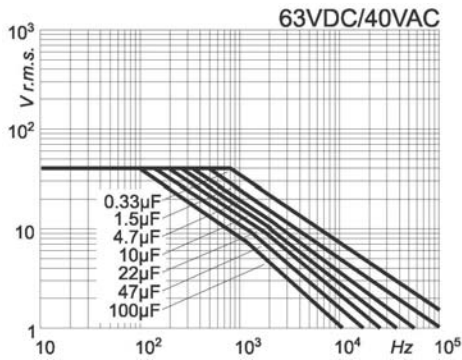


Lead Diameter	
D	d
≤9	0.6
9<D≤20	0.8
>20	1.0

MTR

Axial Leaded
Metallized polyester
capacitors reduced
size

AC voltage graphs



MTR

small size Metallized Polyester Axial Lead

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)	d (MM)
0.001	1000	102MTR102KA	120	5.5x11.5	0.6
0.0015	1000	152MTR102KA	120	5.5x11.5	0.6
0.0022	1000	222MTR102KA	120	5.5x11.5	0.6
0.0033	630	332MTR630KA	60	5.5x11.5	0.6
0.0033	1000	332MTR102KA	120	5.5x11.5	0.6
0.0047	630	472MTR630KA	60	5.5x11.5	0.6
0.0047	1000	472MTR102KA	120	6.5x11.5	0.6
0.0068	630	682MTR630KA	60	6x11.5	0.6
0.0068	1000	682MTR102KA	120	7.5x11.5	0.6
0.01	630	103MTR630KA	60	6x11.5	0.6
0.01	1000	103MTR102KB	80	6.5x14.5	0.6
0.015	630	153MTR630KA	60	7x11.5	0.6
0.015	1000	153MTR102KB	80	7.5x14.5	0.6
0.022	400	223MTR400KA	45	5.5x11.5	0.6
0.022	630	223MTR630KB	40	6.5x14.5	0.6
0.022	1000	223MTR102KB	80	8x14.5	0.6
0.033	400	333MTR400KA	45	6x11.5	0.6
0.033	630	333MTR630KB	40	7x14.5	0.6
0.033	1000	333MTR102KB	80	9.5x14.5	0.8
0.033	1000	333MTR102KD	40	8x20.5	0.6
0.047	400	473MTR400KA	45	6.5x11.5	0.6
0.047	630	473MTR630KB	40	8x14.5	0.6
0.047	1000	473MTR102KD	40	9x20.5	0.8
0.068	250	683MTR250KA	30	5.5x11.5	0.6
0.068	400	683MTR400KA	45	7.5x11.5	0.6
0.068	630	683MTR630KB	40	9.5x14.5	0.8
0.068	630	683MTR630KD	25	8x20.5	0.6
0.068	1000	683MTR102KD	40	10x20.5	0.8
0.1	250	104MTR250KA	30	6.5x11.5	0.6
0.1	400	104MTR400KA	30	7x14.5	0.6
0.1	630	104MTR630KD	25	9x20.5	0.8
0.1	1000	104MTR102KD	40	12.5x20.5	0.8
0.15	250	154MTR250KA	30	7.5x11.5	0.6
0.15	400	154MTR400KB	30	8x14.5	0.6
0.15	630	154MTR630KD	25	10.5x20.5	0.8
0.15	1000	154MTR102KG	33	12x29	0.8
0.22	100	224MTR100KA	15	5.5x11.5	0.6
0.22	250	224MTR250KB	20	7x14.5	0.6
0.22	400	224MTR400KD	20	8x20.5	0.6
0.22	400	224MTR400KB	30	9.5x14.5	0.8
0.22	630	224MTR630KD	25	12.5x20.5	0.8
0.22	1000	224MTR102KG	33	14x29	0.8
0.33	63	334MTR063KA	10	5.5x11.5	0.6
0.33	100	334MTR100KA	15	6.5x11.5	0.6
0.33	250	334MTR250KB	20	8x14.5	0.6
0.33	400	334MTR400KD	20	9.5x20.5	0.8
0.33	630	334MTR630KG	15	12.5x29	0.8
0.33	1000	334MTR102KG	33	17x29	0.8
0.33	1000	334MTR102KJ	20	15x34	0.8
0.47	63	474MTR063KA	10	6x11.5	0.6
0.47	100	474MTR100KA	15	7x11.5	0.6
0.47	250	474MTR250KB	20	9.5x14.5	0.8
0.47	250	474MTR250KD	12	8x20.5	0.6
0.47	400	474MTR400KD	20	11x20.5	0.8
0.47	630	474MTR630KG	15	14x29	0.8
0.47	1000	474MTR102KJ	20	17x34	0.8
0.68	63	684MTR063KB	6	6x14.5	0.6
0.68	100	684MTR100KB	9	7x14.5	0.6

Capacitance (µF)	WVDC	IC PART NUMBER	dv/dt (v/µ sec.)	Dims DxL (mm)	d (MM)
0.68	250	684MTR250KD	12	9x20.5	0.8
0.68	400	684MTR400KD	20	13x20.5	0.8
0.68	630	684MTR630KG	15	16.5x29	0.8
0.68	630	684MTR630KJ	10	15x34	0.8
0.68	1000	684MTR102KJ	20	24x34	1
1	63	105MTR063KB	6	7x14.5	0.6
1	100	105MTR100KB	9	8x14.5	0.6
1	250	105MTR250KD	12	10.5x20.5	0.8
1	400	105MTR400KD	20	14.5x20.5	0.8
1	400	105MTR400KG	13	12.5x29	0.8
1	630	105MTR630KJ	10	17.5x34	0.8
1	1000	105MTR102KN	20	24x34	1
1.5	63	155MTR063KB	6	8x14.5	0.6
1.5	100	155MTR100KB	9	9.5x14.5	0.8
1.5	100	155MTR100KD	5	8x20.5	0.6
1.5	250	155MTR250KD	12	12.5x20.5	0.8
1.5	400	155MTR400KG	13	14.5x29	0.8
1.5	630	155MTR630KJ	10	21x34	1
1.5	1000	155MTR102KN	15	24.5x46.5	1
2.2	63	225MTR063KD	3	8x20.5	0.6
2.2	100	225MTR100KD	5	9.5x20.5	0.6
2.2	250	225MTR250KD	12	14.5x20.5	0.8
2.2	250	225MTR250KG	8	12.5x29	0.8
2.2	400	225MTR400KG	13	17x29	0.8
2.2	400	225MTR400KJ	8	15.5x34	0.8
2.2	630	225MTR630KJ	10	25x34	1
2.2	630	225MTR630KN	8	21.5x46.5	1
2.2	1000	225MTR102KN	15	29x46.5	1
3.3	63	335MTR063KD	3	9.5x20.5	0.8
3.3	100	335MTR100KD	5	11x20.5	0.8
3.3	250	335MTR250KG	8	14.5x29	0.8
3.3	400	335MTR400KJ	8	18x34	0.8
3.3	630	335MTR630KN	8	25.5x46.5	1
3.3	1000	335MTR102KN	15	35x46.5	1
4.7	63	475MTR063KD	3	11x20.5	0.8
4.7	100	475MTR100KD	5	13x20.5	0.8
4.7	250	475MTR250KG	8	17x29	0.8
4.7	250	475MTR250KJ	5	15x34	0.8
4.7	400	475MTR400KJ	8	21.5x34	1
4.7	630	475MTR630KN	8	30x46.5	1
6.8	63	685MTR063KD	3	12.5x20.5	0.8
6.8	100	685MTR100KG	3	13x29	0.8
6.8	250	685MTR250KJ	5	17.5x34	0.8
6.8	400	685MTR400KJ	8	25.5x34	1
6.8	400	685MTR400KN	6	22x46.5	1
6.8	630	685MTR630KN	8	35x46.5	1
10	63	106MTR063KG	2	12.5x29	0.8
10	100	106MTR100KG	3	15.5x29	0.8
10	100	106MTR100KJ	2	14x34	0.8
10	250	106MTR250KJ	5	21x34	1
10	400	106MTR400KN	6	26x46.5	1
15	63	156MTR063KG	2	17.5x29	0.8
15	100	156MTR100KJ	2	16.5x34	0.8
15	250	156MTR250KN	3	22x46.5	1
15	250	156MTR250KJ	5	25x34	1
15	400	156MTR400KN	6	31.5x46.5	1
22	63	226MTR063KG	2	17.5x29	0.8
22	100	226MTR100KJ	2	19.5x34	1

MTR

small size Metallized
Polyester Axial Lead

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims DxL (mm)	d (MM)
22	250	226MTR250KN	3	25.5x46.5	1
22	400	226MTR400KN	6	37x46.5	1
33	63	336MTR063KJ	1	19.5x34	1
33	100	336MTR100KJ	2	23x34	1
33	250	336MTR250KN	3	30.5x46.5	1
47	63	476MTR063KJ	1	22.5x34	1
47	100	476MTR100KJ	2	27x34	1
47	100	476MTR100KN	1	23.5x46.5	1

Capacitance (μF)	WVDC	IC PART NUMBER	dv/dt (v/μ sec.)	Dims DxL (mm)	d (MM)
47	250	476MTR250KN	3	36x46.5	1
68	63	686MTR063KN	1	23x46.5	1
68	100	686MTR100KN	1	28x46.5	1
100	63	107MTR063KN	1	27.5x46.5	1
100	100	107MTR100KN	1	33x46.5	1
120	100	127MTR100KN	1	36x46.5	1
150	63	157MTR063KN	1	33x46.5	1