

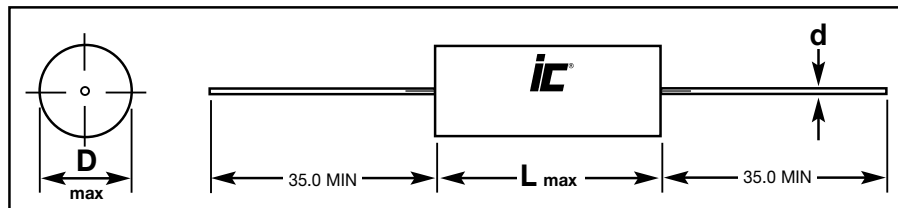
# MTR

## Axial Leaded Metallized Polyester Film Capacitors Reduced Size



- **Small Size**
- **General Purpose**
- **Low AC Voltage**
- **High Reliability**

<b>Operating Temperature Range</b>		<b>-55°C to +105°C</b>					
<b>Capacitance Tolerance</b>		<b>±10% at 1 kHz, 20°C ±5% optional</b>					
<b>AC voltage</b>	<b>WVDC</b>	<b>63</b>	<b>100</b>	<b>250</b>	<b>400</b>	<b>630</b>	<b>1000</b>
	<b>VAC</b>	40	63	160	200	220	400
<b>Dissipation Factor (%) at 20°C.</b>		<b>Freq (kHz)</b>	<b>C≤0.1μF</b>	<b>0.1μF&lt;C≤1μF</b>	<b>1μF&lt;C≤68μF</b>	<b>C&gt;68μF</b>	
		<b>1kHz</b>	.08	.08	.1	.11	
		<b>10kHz</b>	.15	.15	-	-	
		<b>100kHz</b>	.3	-	-	-	
<b>Insulation Resistance @20°C (&lt;70% RH) for 1 minute at 100VDC applied</b>		<b>WVDC</b>	<b>Capacitance</b>		<b>Insulation Resistance</b>		
		≤100	≤0.33μF		>3750MΩ		
		>100	≤0.33μF		≥30000MΩxμF		
		≤100	>0.33μF		>1250MΩ		
		>100	>0.33μF		>10000MΩxμF		
<b>Self inductance</b>		<1 nano-Henry per mm of body length and lead length					
<b>Dielectric Strength</b>		Terminal to terminal					
		160% of VDC applied for 2 Seconds and 25°C					
<b>Reliability (1 Fit= 1x10<sup>9</sup> failures/component hours)</b>		≤5 Fit with 0.5xrated voltage at 40°C					
		Capacitance Change			<10% of initially measured value		
		Dissipation Factor			<200% of maximum specified value		
		Insulation Resistance			< .005 of minimum specified value		
<b>Construction</b>		Metallized Polyester Film					
<b>Coating</b>		Flame Retardant Polyester Tape Wrap (UL510) with Epoxy End Fill (UL-94V0)					
<b>Lead Terminations</b>		Lead Free Tinned Copper Leads					



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### PHYSICAL DIMENSIONS

$\mu\text{F}$ \diagdown WVDC (VAC)	63 (40)	100 (63)	250 (160)	400 (200)	630 (220)	1000 (400)
0.001					→	5.5x11.5
0.0015					→	5.5x11.5
0.0022					→	5.5x11.5
0.0033				→	5.5x11.5	5.5x11.5
0.0047				→	5.5x11.5	6.5x11.5
0.0068				→	6x11.5	7.5x11.5
0.01				→	6x11.5	6.5x14.5
0.015				→	7x11.5	7.5x14.5
0.022			→	5.5x11.5	6.5x14.5	8x14.5
0.033			→	6x11.5	7x14.5	8x20.5 9.5x14.5
0.047			→	6.5x11.5	8x14.5	9x20.5
0.068		→	5.5x11.5	7.5x11.5	8x20.5 9.5x14.5	10x20.5
0.1		→	6.5x11.5	7x14.5	9x20.5	12.5x20.5
0.15		→	7.5x11.5	8x14.5	10.5x20.5	12x29
0.22	→	5.5x11.5	7x14.5	8x20.5 9.5x14.5	12.5x20.5	14x29
0.33	5.5x11.5	6.5x11.5	8x14.5	9.5x20.5	12.5x29	15x34 17x29
0.47	6x11.5	7x11.5	8x20.5 9.5x14.5	11x20.5	14x29	17x34
0.68	6x14.5	7x14.5	9x20.5	13x20.5	15x34 16.5x29	24x34
1	7x14.5	8x14.5	10.5x20.5	12.5x29 14.5x20.5	17.5x34	24x34
1.5	8x14.5	8x20.5 9.5x14.5	12.5x20.5	14.5x29	21x34	24.5x46.5
2.2	8x20.5	9.5x20.5	12.5x29 14.5x20.5	15.5x34 17x29	21.5x46.5	29x46.5 25x34
3.3	9.5x20.5	11x20.5	14.5x29	18x34	25.5x46.5	35x46.5
4.7	11x20.5	13x20.5	15x34 17x29	21.5x34	30x46.5	
6.8	12.5x20.5	13x29	17.5x34	22x46.5 25.5x34	35x46.5	
10	12.5x29	14x34 15.5x29	21x34	26x46.5		
22	17.5x29	19.5x34	25.5x46.5	37x46.5		
33	19.5x34	23x34	30.5x46.5			
47	22.5x34	23.5x46.5 27x34	36x46.5			
68	23x46.5	28x46.5				
100	27.5x46.5	33x46.5				
120	→	36x46.5				
150	33x46.5					

Convert to inches, divide by 25.4

DxL(mm)



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## STANDARD PARTS LIST

Capacitance (µF)	WVDC	IC <sup>®</sup> PART NUMBER	dv/dt (v/µs)	Dimensions DxL (mm)	Lead wire dia. (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	224MTR400KB	30	9.5x14.5	0.8
0.22	400	224MTR400KD	20	8x20.5	0.6
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

Capacitance (µF)	WVDC	IC <sup>®</sup> PART NUMBER	dv/dt (v/µs)	Dimensions DxL (mm)	Lead wire dia. (mm)
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
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	8.5	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	8.5	18x34	0.8
3.3	630	335MTR630KN	8	25.5x46.5	1
3.3	1000	335MTR102KN	15	35x46.5	1



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4.7	63	475MTR063LD	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	8.5	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	8.5	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	156MTR250KJ	5	25x34	1

Capacitance ( $\mu\text{F}$ )	WVDC	<b>ic</b> ® PART NUMBER	dv/dt (v/ $\mu\text{s}$ )	Dimensions DxL (mm)	Lead wire dia. (mm)
15	250	156MTR250KN	3.5	22x46.5	1
15	400	156MTR400KN	6	31.5x46.5	1
22	63	226MTR063KG	2	17.5x29	0.8
22	100	226MTR100KJ	2	19.5x34	1
22	250	226MTR250KN	3.5	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	3.5	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
47	250	476MTR250KN	3.5	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



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