MDD-P, MTB-P Series (Metallized Polypropylene Film Capacitors for High frequency)

These types are metallized polypropylene film capacitors that have been used for many years and are suitable for communication devices and inverter fluorescent lighting.
Use either resin dip type (MDD-P type) or tape wrapped type (MTB-P type) depending on the operating condition.

Product Specifications

Item	Specifications	
Operating temperature range	–40°C ~ +85°C	
Rated voltage	250 ~ 630V.DC	
Capacitance tolerance	±5% (J), ±10% (K), ±20% (M)	
Dissipation factor	0.1% or less (20°C,1kHz)	
Withstanding voltage	Between terminals	Rated voltage (V.DC) × 1.4 for one min
	Between terminal and outside coating	Rated voltage (V.DC) × 2.0 for 1 to 5 seconds
Insulation resistance	$C_R \leq 0.33\mu F$ 25,000MΩ or more	
	$C_R > 0.33\mu F$ 7,500MΩ • μF or more	
Related standard	Subject to JIS C 5101-1 and JIS C 5101-16.	

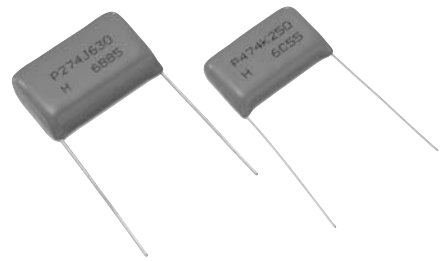
Product symbol: (Example) MDD-P series 250 V.DC 0.1μF±10%

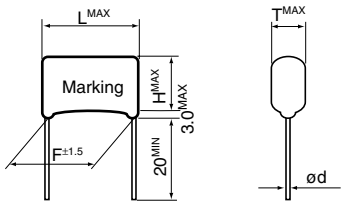
MDD-P 2E 104 K

- MDD-P: Type of series
- 2E: Rated voltage code
- 104: Capacitance code
- K: Capacitance tolerance code

MDD-P Series (Resin Dip Type Metallized Polypropylene Film Capacitors)

Outline of drawings and dimensions



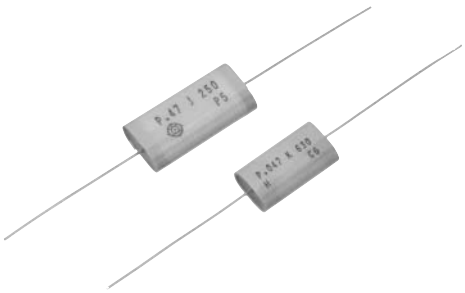


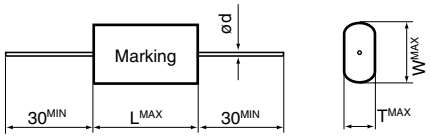
Standard value and case size (Unit : mm)

Capacitance		Rated voltage (code)														
		250V.DC (2E)					400V.DC (2G)					630V.DC (2J)				
μF	Code	T	H	L	F	d	T	H	L	F	d	T	H	L	F	d
0.027	273											7.0	10.5	18.0	15.0	0.6
0.033	333						7.0	11.0	15.0	12.5	0.6	7.5	11.0	18.0	15.0	0.6
0.039	393						7.5	11.5	15.0	12.5	0.6	8.0	11.5	18.0	15.0	0.6
0.047	473						7.5	12.5	15.0	12.5	0.6	8.0	13.0	18.0	15.0	0.6
0.056	563						6.5	10.5	20.0	17.5	0.6	8.5	13.5	18.0	15.0	0.6
0.068	683	6.5	10.0	15.0	12.5	0.6	7.0	11.5	20.0	17.5	0.6	8.0	13.0	26.0	22.5	0.8
0.082	823	7.0	10.5	15.0	12.5	0.6	7.5	12.5	20.0	17.5	0.6	8.5	13.5	26.0	22.5	0.8
0.10	104	7.0	12.0	15.0	12.5	0.6	8.0	13.0	20.0	17.5	0.6	9.0	15.5	26.0	22.5	0.8
0.12	124	7.5	12.5	15.0	12.5	0.6	8.5	13.5	20.0	17.5	0.8	9.5	16.0	26.0	22.5	0.8
0.15	154	7.0	11.0	20.0	17.5	0.6	9.5	14.5	20.0	17.5	0.8	10.5	17.0	26.0	22.5	0.8
0.18	184	7.0	12.0	20.0	17.5	0.6	10.5	15.5	20.0	17.5	0.8	11.5	18.0	26.0	22.5	0.8
0.22	224	7.5	12.5	20.0	17.5	0.6	11.5	16.5	20.0	17.5	0.8	11.5	18.0	29.0	25.0	0.8
0.27	274	8.5	13.0	20.0	17.5	0.6	9.5	16.0	29.0	25.0	0.8	12.5	19.5	29.0	25.0	0.8
0.33	334	8.5	15.0	20.0	17.5	0.6	10.5	16.5	29.0	25.0	0.8	13.0	22.5	29.0	25.0	0.8
0.39	394	9.0	15.5	20.0	17.5	0.6	11.0	17.5	29.0	25.0	0.8	14.0	23.5	29.0	25.0	0.8
0.47	474	8.5	15.0	26.0	22.5	0.6	12.0	18.5	29.0	25.0	0.8	13.0	22.5	36.0	32.5	0.8
0.56	564	9.0	15.5	26.0	22.5	0.8	13.0	19.5	29.0	25.0	0.8	14.0	23.5	36.0	32.5	0.8
0.68	684	10.0	16.5	26.0	22.5	0.8	13.0	23.0	29.0	25.0	0.8					
0.82	824	10.0	19.5	26.0	22.5	0.8	12.0	22.0	36.0	32.5	0.8					
1.0	105	10.0	19.5	31.0	27.5	0.8	13.5	23.0	36.0	32.5	0.8					

MTB-P Series (Tape Wrapped Metallized Polypropylene Film Capacitors)

Outline of drawings and dimensions





Standard value and case size (Unit : mm)

Capacitance		Rated voltage (code)											
		250V.DC (2E)				400V.DC (2G)				630V.DC (2J)			
μF	Code	T	W	L	d	T	W	L	d	T	W	L	d
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0.039	393					6.0	9.5	16.0	0.6	6.0	10.0	20.0	0.6
0.047	473					6.0	11.0	16.0	0.6	6.5	11.5	20.0	0.6
0.056	563					5.0	9.0	21.0	0.6	7.0	12.0	20.0	0.6
0.068	683	4.5	8.5	16.0	0.6	5.0	10.0	21.0	0.6	6.0	11.0	26.0	0.6
0.082	823	5.0	9.0	16.0	0.6	5.5	10.5	21.0	0.6	7.0	11.5	26.0	0.8
0.10	104	5.5	10.5	16.0	0.6	6.5	11.0	21.0	0.6	7.5	12.5	26.0	0.8
0.12	124	6.0	11.0	16.0	0.6	7.0	12.0	21.0	0.6	7.5	14.0	26.0	0.8
0.15	154	5.5	9.0	21.0	0.6	8.0	13.0	21.0	0.6	9.0	15.0	26.0	0.8
0.18	184	5.5	10.5	21.0	0.6	8.5	13.5	21.0	0.6	9.5	16.0	26.0	0.8
0.22	224	6.0	11.0	21.0	0.6	9.5	14.5	21.0	0.6	10.0	16.5	29.0	0.8
0.27	274	6.5	11.5	21.0	0.6	7.5	14.0	29.0	0.8	11.0	17.5	29.0	0.8
0.33	334	7.0	13.5	21.0	0.6	8.5	15.0	29.0	0.8	11.0	20.5	29.0	0.8
0.39	394	7.5	14.0	21.0	0.6	9.5	15.5	29.0	0.8	12.0	22.0	29.0	0.8
0.47	474	7.0	13.0	26.0	0.6	10.5	16.5	29.0	0.8	11.0	20.5	37.0	0.8
0.56	564	7.5	14.0	26.0	0.6	11.5	17.5	29.0	0.8	12.5	22.0	37.0	0.8
0.68	684	8.5	15.0	26.0	0.6	11.5	21.0	29.0	0.8				
0.82	824	8.0	18.0	26.0	0.6	10.5	20.0	37.0	0.8				
1.0	105	8.0	18.0	31.0	0.8	12.0	21.0	37.0	0.8				