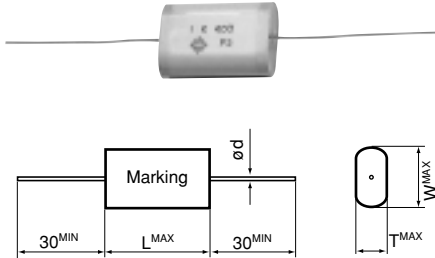


MTBS, MTB Series (Tape Wrapped Metallized Polyester Film Capacitors)

This series offers metallized film capacitors that have axial leads and exhibit excellent heat resistance and moisture resistance. These capacitors employ a metallized polyester film dielectric and have a polyester-taped outer covering and resin-sealed ends.

Outline of drawings and dimensions



Product symbol : (Example) MTBS Series 100V.DCV 0.1 μ F \pm 10%

MTB 2J 104 K

Type of series: MTB
Capacitance code: 104
Rated voltage code: 2J
Capacitance tolerance code: K

Product symbol : (Example) MTB Series 630V.DCV 0.1 μ F \pm 10%

MTBS 2A 104 K

Type of series: MTBS
Specify as MTBS when ordering 100V DC items

Product Specifications

Items	Specifications
Temperature range	-40°C to +85°C
Rated voltage	100 to 630 V.DC
Capacitance tolerance	\pm 5% (J), \pm 10% (K), \pm 20% (M)
Withstanding voltage	Rated volt (V.DC) \times 1.5 1min.
Dielectric dissipation factor	Less than 0.8% (20°C, 1KHz)
Insulation resistance	$C_r \leq 0.33\mu$ F More than 9,000M Ω
	$C_r > 0.33\mu$ F More than 3,000 $\Omega \cdot \mu$ F
Others	Subject to JIS C 5115 and JIS C 5102.

Standard value and case size

(Unit : mm)

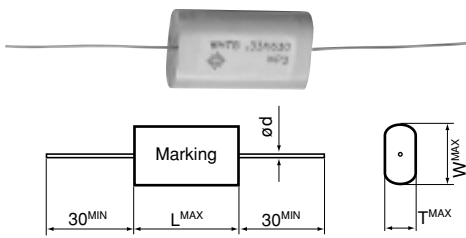
Capacitance	MTBS		MTB															
			Rated voltage (Code)															
			100V.DC (2A)				250V.DC (2E)				400V.DC (2G)				630V.DC(2J)			
μ F	Code	T	W	L	d	T	W	L	d	T	W	L	d	T	W	L	d	
0.022	223									4.0	7.0	14.0	0.6	4.0	9.0	16.0	0.6	
0.033	333									4.0	7.5	16.0	0.6	5.5	9.0	16.0	0.6	
0.047	473					4.0	7.5	14.0	0.6	5.0	8.5	16.0	0.6	4.5	9.5	22.0	0.6	
0.068	683					4.0	7.5	16.0	0.6	6.0	9.5	16.0	0.6	5.5	10.5	22.0	0.6	
0.10	104	4.5	7.5	11.0	0.6	4.5	9.0	16.0	0.6	5.0	10.0	22.0	0.6	6.5	13.0	22.0	0.6	
0.12	124	4.0	8.0	14.0	0.6	5.0	9.5	16.0	0.6	5.5	10.5	22.0	0.6	7.0	13.5	22.0	0.6	
0.15	154	4.0	8.0	14.0	0.6	5.5	10.5	16.0	0.6	6.5	11.0	22.0	0.6	6.5	11.5	29.0	0.6	
0.18	184	4.0	8.0	14.0	0.6	6.0	11.0	16.0	0.6	6.5	12.5	22.0	0.6	6.5	13.0	29.0	0.8	
0.22	224	4.0	8.0	14.0	0.6	5.0	10.0	22.0	0.6	7.0	13.5	22.0	0.6	7.5	14.0	29.0	0.8	
0.27	274	4.0	8.0	14.0	0.6	5.5	10.5	22.0	0.6	8.0	14.5	22.0	0.6	7.5	17.0	29.0	0.8	
0.33	334	4.5	8.5	14.0	0.6	6.0	11.0	22.0	0.6	7.0	13.5	29.0	0.8	8.0	17.5	31.0	0.8	
0.39	394	5.0	9.0	14.0	0.6	7.0	11.5	22.0	0.6	7.5	14.0	29.0	0.8	9.0	18.5	31.0	0.8	
0.47	474	5.5	9.5	14.0	0.6	7.5	12.5	22.0	0.6	8.5	14.5	29.0	0.8	9.5	19.0	31.0	0.8	
0.56	564	4.5	9.5	20.0	0.6	6.0	12.0	29.0	0.8	8.0	17.5	29.0	0.8	11.0	20.5	31.0	0.8	
0.68	684	5.0	9.5	20.0	0.6	6.5	13.0	29.0	0.8	9.0	18.5	29.0	0.8	11.0	23.5	31.0	0.8	
0.82	824	5.0	10.0	20.0	0.6	7.0	13.5	29.0	0.8	10.0	19.5	29.0	0.8	12.5	25.0	31.0	0.8	
1.0	105	6.0	10.5	20.0	0.6	7.0	16.5	29.0	0.8	11.5	21.0	29.0	0.8	14.0	26.5	31.0	0.8	
1.2	125	6.5	11.5	20.0	0.6	8.0	17.5	29.0	0.8	12.0	21.5	31.0	0.8	12.5	25.0	43.0	1.0	
1.5	155	7.0	12.5	20.0	0.6	9.0	18.5	29.0	0.8	14.0	23.5	31.0	0.8	14.0	26.5	43.0	1.0	
1.8	185	7.0	12.0	22.0	0.8	10.0	19.5	29.0	0.8	12.5	22.0	43.0	1.0	15.5	28.5	43.0	1.0	
2.2	225	7.5	13.0	22.0	0.8	11.0	21.0	29.0	0.8	14.0	24.0	43.0	1.0	15.5	28.0	52.0	1.0	
2.7	275	8.5	14.0	22.0	0.8	9.5	19.0	43.0	1.0	14.0	24.0	43.0	1.0					
3.3	335	9.0	16.0	22.0	0.8	10.5	20.5	43.0	1.0	16.0	28.5	43.0	1.0					
3.9	395	10.0	17.0	22.0	0.8	12.0	21.5	43.0	1.0	16.5	32.5	43.0	1.0					
4.7	475	11.0	17.5	22.0	0.8	13.5	23.0	43.0	1.0	15.5	31.0	52.0	1.0					
5.6	565	11.0	17.5	26.0	0.8	13.0	22.5	52.0	1.0									
6.8	685	12.0	18.5	26.0	0.8	14.5	24.0	52.0	1.0									
8.2	825	10.5	16.5	31.0	0.8	16.0	25.5	52.0	1.0									
10.0	106	11.5	18.0	31.0	0.8	16.5	29.5	52.0	1.0									

WMTB Series, WMTB-P Series

(High-frequency Large-current Tape-wrapped Capacitors) (For Snubbers)

The WMTB / WMTB-P series offers tape-wrapped capacitors which are developed for applications where high-frequency current is essential. Being small and lightweight, these capacitors are ideal for use in high-frequency large-current circuits for high-frequency surge suppressors, various inverter circuits, snubber circuits, and the like.

Outline of drawings and dimensions



Product symbol : (Example) WMTB-P Series 1200V.DCV 1.0 μ F \pm 10%

WMTB-P 1200 104 K

Type of series: WMTB-P
Capacitance code: 104
Rated voltage code: 1200
Capacitance tolerance code: K

WMTB, and WMTB-P Type Product Specifications

Items	Specifications	
	WMTB Type	WMTB-P Type
Type of Series	WMTB Type	WMTB-P Type
Dielectric	Metallized polyester	Metallized polypropylene
Temperature range	-40°C to +85°C	-40°C to +85°C
Rated voltage	630V.DC	1,200V.DC
Capacitance tolerance	\pm 10% (K)	\pm 10% (K)
Withstanding voltage	Rated volt (V.DC) \times 1.5 1min.	Rated volt (V.DC) \times 1.5 1min.
Dielectric dissipation factor	Less than 0.8% (20°C, 1KHz)	Less than 0.1% (20°C, 1KHz)
Insulation resistance	$C_r \leq 0.33\mu$ F More than 9,000M Ω	$C_r \leq 0.33\mu$ F More than 30,000M Ω
	$C_r > 0.33\mu$ F More than 3,000 $\Omega \cdot \mu$ F	$C_r > 0.33\mu$ F More than 10,000 $\Omega \cdot \mu$ F

WMTB, and WMTB-P Type Standard value and case size

(Unit : mm)

Capacitance	Rated voltage									
	630V.DC (WMTB Type)				1200V.DC (WMTB-P Type)					
	μ F	Code	T	W	L	d	T	W	L	d
0.10	104						11.0	20.0	36.0	0.8
0.15	154						13.5	23.0	36.0	0.8
0.22	224	10.5	20.0	29.0	0.8		17.0	26.0	36.0	0.8
0.33	334	12.0	18.5	33.0	0.8		15.5	25.0	41.0	1.0
0.47	474	13.0	22.5	33.0	0.8		20.0	29.0	41.0	1.0
0.68	684	14.0	24.0	41.0	1.0		23.5	33.0	41.0	1.0
1.0	105	16.5	27.5	41.0	1.0		21.0	35.5	54.0	1.0
1.5	155	18.0	27.5	52.0	1.0					
2.2	225	21.0	33.5	52.0	1.0					