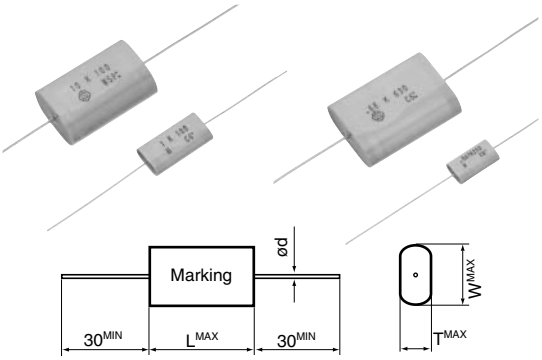
MTBS, MTB Series (Tape Wrapped Metallized Polyester Film Capacitors)

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) MTB Series 630V.DC 0.1µF ±10%

MTB 2J 104 K

- Capacitance tolerance code
- Capacitance code
- Rated voltage code
- Type of series

Product symbol : (Example) MTBS Series 100V.DC 1.0µF ±10%

MTBS 2A 105 K

Type of series

Specify as MTBS when ordering 100V DC items

Product Specifications

Items	Specifications
Temperature range	–40°C ~ +85°C
Rated voltage	100 ~ 630 V.DC
Capacitance tolerance	±5% (J), ±10% (K), ±20% (M)
Withstanding voltage	Rated voltage (V.DC) × 1.4 for one min.
Dielectric dissipation factor	0.8% or less (20°C,1KHz)
Insulation resistance	$C_R \leq 0.33\mu F$ 7,500MΩ or more
	$C_R > 0.33\mu F$ 2,500MΩ • µF or more
Related standard	Subject to JIS C 5101-1 and JIS C 5101-2.

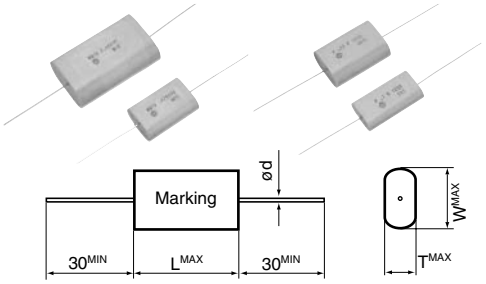
Standard value and case size (Unit : mm)

Capacitance		MTBS				MTB											
		Rated voltage (Code)															
		100V.DC (2A)				250V.DC (2E)				400V.DC (2G)				630V.DC(2J)			
µF	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	4.5	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	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					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					5.5	10.5	16.0	0.6	6.5	11.0	22.0	0.6	6.5	11.5	29.0	0.8
0.18	184					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					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	11.5	18.5	29.0	0.8	16.0	25.5	52.0	1.0								
10.0	106	12.5	20.5	29.0	0.8	16.5	29.5	52.0	1.0								

WMTB, 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.DC 0.1µF ±10%

WMTB-P 1200 104 K

- Capacitance tolerance code
- Capacitance code
- Rated voltage code
- Type of series

WMTB, and WMTB-P Type Product Specifications

Items	Specifications	
Type of Series	WMTB Type	WMTB-P Type
Dielectric	Metallized polyester	Metallized polypropylene
Temperature range	–40°C ~ +85°C	–40°C ~ +85°C
Rated voltage	630V.DC	1,200V.DC
Capacitance tolerance	±10% (K)	±10% (K)
Withstanding voltage	Rated voltage (V.DC) × 1.5 for one min.	Rated voltage (V.DC) × 1.5 for one min.
Dielectric dissipation factor	0.8% or less (20°C,1KHz)	0.1% or less (20°C,1KHz)
Insulation resistance	$C_R \leq 0.33\mu F$ 9,000MΩ or more	$C_R \leq 0.33\mu F$ 30,000MΩ or more
	$C_R > 0.33\mu F$ 3,000MΩ • µF or more	$C_R > 0.33\mu F$ 10,000MΩ • µF or more

WMTB, and WMTB-P Type Standard value and case size (Unit : mm)

Capacitance		Rated voltage							
		630V.DC (WMTB Type)				1200V.DC (WMTB-P Type)			
µF	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	11.0	20.5	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				