

STACKED TYPE METALLIZED POLYESTER FILM CAPACITOR^{Type} MMT/MTF

Features

MMT is a micro-miniature capacitor in stacked construction composed of ultra-thin metallized polyester film made available by our unique engineering method meet the needs of miniaturization.

- We have MTF type where oxygen-free copper wires are used as lead wires and all lead wires of MTF type are formed.

When ordering, please tell us which type you require among MTF and MTFV.

- Standardized 5.0 mm lead spacing from 0.01 to 1.0 μF and available both in lead formed type and straight lead type for auto insertion.
- For 50V, special types are available upon request use up to 105°C.

Specifications

Temp range	-40 to +85°C (+105°C) *	Insulation resistance	$C \leq 0.33\mu\text{F}$ 3,000M Ω or more $C > 0.33\mu\text{F}$ 1,000 ΩF or more	
Voltage	50V, 63V, 100V, 250V.d.c		Endurance	85°C W.V. \times 125%, 1000hr *3 $\Delta C/C \pm 7\%$ within $\tan\delta$ 0.01 or less IR $C \leq 0.33\mu\text{F}$ 1,000M Ω or more $C > 0.33\mu\text{F}$ 300 ΩF or more
Capacitance	50V.d.c, 63V.d.c 0.010 to 3.3 μF (E-12) 100V.d.c 0.0010 to 1.0 μF (E-12) 250V.d.c 0.0010 to 0.22 μF (E-12)			Damp heat
Cap. tolerance	$\pm 5\%$ (J)			
Tangent of loss angle	0.01 or less (at 1kHz)			

* () Marked temperature shows operational range when voltage is derated.

For a pitch space(F) of the taping specification, refer to "TAPING DIMENSIONS"

Style	Straight lead type		Single formed lead type	
Cap range	MMT 50V.d.c	103 to 335	103 to 335	103 to 335
	MMT 63V.d.c	103 to 335	103 to 335	103 to 335
	MMT 100V.d.c	103 to 105	103 to 105	103 to 105
	MMT 250V.d.c	103 to 224	103 to 224	103 to 224
	MTF 50V.d.c	—	—	103 to 335

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Dimensions(mm)

Capacitors Code	Cap(μF)	MMT 50V.dc						MTF 50V.dc						MMT 63V.dc					
		W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd
103	0.010	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
123	0.012	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
153	0.015	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
183	0.018	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
223	0.022	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
273	0.027	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
333	0.033	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
393	0.039	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
473	0.047	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
563	0.056	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
683	0.068	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
823	0.082	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
104	0.10	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
124	0.12	7.3	5.0	3.2	5.0	5.0	0.5	7.3	5.0	3.2	5.0	5.0	0.6	8.0	5.0	3.2	5.0	5.0	0.5
154	0.15	7.3	5.5	3.5	5.0	5.0	0.5	7.3	5.5	3.5	5.0	5.0	0.6	8.0	5.5	3.5	5.0	5.0	0.5
184	0.18	7.3	5.5	4.0	5.0	5.0	0.5	7.3	5.5	4.0	5.0	5.0	0.6	8.0	5.5	3.5	5.0	5.0	0.5
224	0.22	7.3	5.5	4.3	5.0	5.0	0.5	7.3	5.5	4.3	5.0	5.0	0.6	8.0	5.5	3.8	5.0	5.0	0.5
274	0.27	7.3	6.5	4.3	5.0	5.0	0.5	7.3	6.5	4.3	5.0	5.0	0.6	8.0	6.5	4.3	5.0	5.0	0.5
334	0.33	7.3	6.5	4.8	5.0	5.0	0.5	7.3	6.5	4.8	5.0	5.0	0.6	8.0	6.5	4.5	5.0	5.0	0.5
394	0.39	7.3	7.0	5.0	5.0	5.0	0.5	7.3	7.0	5.0	5.0	5.0	0.6	8.0	7.0	5.0	5.0	5.0	0.5
474	0.47	7.3	8.0	5.5	5.0	5.0	0.5	7.3	8.0	5.5	5.0	5.0	0.6	8.0	8.0	5.0	5.0	5.0	0.5
564	0.56	7.3	8.0	5.8	5.0	5.0	0.5	7.3	8.0	5.8	5.0	5.0	0.6	8.0	10.0	4.3	5.0	5.0	0.5
684	0.68	7.3	8.5	6.5	5.0	5.0	0.5	7.3	8.5	6.5	5.0	5.0	0.6	8.0	10.0	4.5	5.0	5.0	0.5
824	0.82	7.3	9.5	6.5	5.0	5.0	0.5	7.3	9.5	6.5	5.0	5.0	0.6	8.0	11.0	5.0	5.0	5.0	0.5
105	1.0	7.3	9.5	7.5	5.0	5.0	0.5	7.3	9.5	7.5	5.0	5.0	0.6	8.0	11.0	5.3	5.0	5.0	0.5
125	1.2	10.0	9.5	5.5	7.5	5.0	0.5	10.0	9.5	5.5	7.5	5.0	0.6	11.0	10.0	4.7	7.5	5.0	0.5
155	1.5	10.0	9.5	6.5	7.5	5.0	0.5	10.0	9.5	6.5	7.5	5.0	0.6	11.0	11.0	5.0	7.5	5.0	0.5
185	1.8	10.0	11.0	6.5	7.5	5.0	0.5	10.0	11.0	6.5	7.5	5.0	0.6	11.0	11.0	5.5	7.5	5.0	0.5
225	2.2	10.0	11.0	7.0	7.5	5.0	0.5	10.0	11.0	7.0	7.5	5.0	0.6	11.0	12.0	6.0	7.5	5.0	0.5
275	2.7	10.0	13.5	7.0	7.5	5.0	0.5	10.0	13.5	7.0	7.5	5.0	0.6	11.0	13.5	6.5	7.5	5.0	0.5
335	3.3	10.0	13.5	8.0	7.5	5.0	0.5	10.0	13.5	8.0	7.5	5.0	0.6	11.0	13.5	7.0	7.5	5.0	0.5

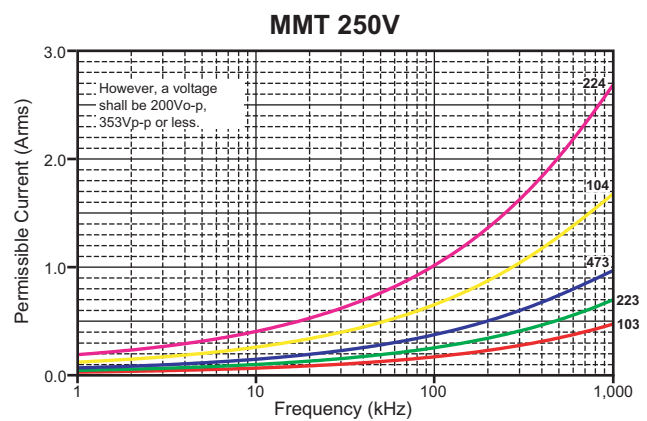
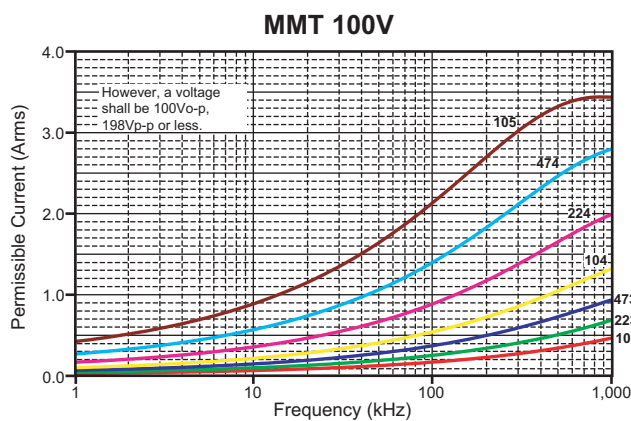
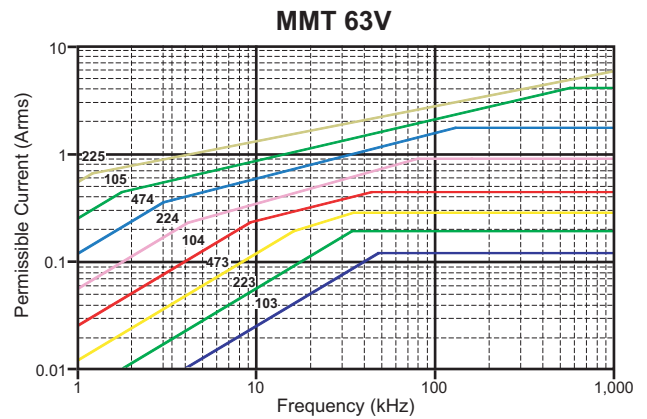
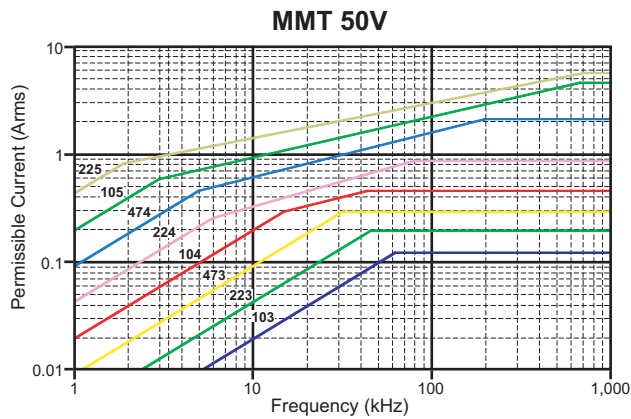
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334	0.33	7.3	6.0	5.3	5.0	5.0	0.5						
394	0.39	7.3	6.5	5.3	5.0	5.0	0.5						
474	0.47	7.3	7.5	5.3	5.0	5.0	0.5						
564	0.56	7.3	7.5	5.6	5.0	5.0	0.5						
684	0.68	7.3	8.5	5.6	5.0	5.0	0.5						
824	0.82	7.3	8.5	6.5	5.0	5.0	0.5						
105	1.0	7.3	10.0	6.5	5.0	5.0	0.5						

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Standard quantity packed in a box

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Characteristics of permissible current to frequency



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