

METALLIZED POLYESTER FILM CAPACITOR

Type **MMX**

Features

- Smaller version of MMC type.
- Very small size, achieved by our unique manufacturing method.
- Highly reliable because of its self-healing performance.
- Uniform flame-retardant epoxy resin coating through the latest resin technology. This provides miniature size and light weight.

Specifications

Temp range	-40 to +85°C (+105°C) *1	Insulation resisatance	C≤0.33μF 15,000MΩ or more C>0.33μF 5,000ΩF or more	
Voltage	250V, 400V, 450V (*2), 630V.d.c		Endurance	85°C W.V. × 125%, 1000hr(*3) ΔC/C ±10% within tanδ 0.011 or less IR C≤0.33μF 2,700MΩ or more C>0.33μF 900ΩF or more
Capacitance	250V.d.c 0.0010 to 10μF (E-12) 450V.d.c 0.10 to 2.2μF (E-12) 400V.d.c 0.0010 to 4.7μF (E-12) 630V.d.c 0.0010 to 2.2μF(E-12)			Damp heat
Cap. tolerance	±5%(J), ±10%(K)			
Tangent of loss angle	0.008 or less (at 1kHz)			

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

*2 Recommendable for Active filtering Circuit.

*3 450V.d.c: 85°C WV 111% 1000hr applied

Style	Straight lead type		Single formed lead type		
	<p>* For H-dimension exceeding 20mm, 2.0mm Max</p>				
Cap range	250V.d.c	102 to 106	102 to 106	394 to 106	
	400V.d.c	102 to 475	102 to 475	124 to 475	
	450V.d.c	104 to 225	102 to 225	124 to 225	
	630V.d.c	102 to 225	102 to 225	563 to 225	

For a pitch space(F) of the taping specification, refer to "TAPAING DEMENSIONS"

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Type **MMX**

Dimensions(mm)

Capacitors Code	Cap(μF)	MMX 250V.dc						MMX 400V.dc					
		W	H	T	P	F	φd	W	H	T	P	F	φd
102	0.0010	7.3	6.5	3.7	5.0	5.0	0.6	9.8	5.5	3.5	7.5	5.0/7.5	0.6
122	0.0012	7.3	6.5	3.7	5.0	5.0	0.6	9.8	5.5	3.5	7.5	5.0/7.5	0.6
152	0.0015	7.3	6.5	3.7	5.0	5.0	0.6	9.8	5.5	3.5	7.5	5.0/7.5	0.6
182	0.0018	7.3	6.5	3.7	5.0	5.0	0.6	9.8	5.5	3.5	7.5	5.0/7.5	0.6
222	0.0022	7.3	6.5	3.7	5.0	5.0	0.6	9.8	5.5	3.5	7.5	5.0/7.5	0.6
272	0.0027	7.3	6.5	3.7	5.0	5.0	0.6	9.8	5.5	3.5	7.5	5.0/7.5	0.6
332	0.0033	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.0	4.2	7.5	5.0/7.5	0.6
392	0.0039	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.0	4.2	7.5	5.0/7.5	0.6
472	0.0047	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.0	4.2	7.5	5.0/7.5	0.6
562	0.0056	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.5	4.2	7.5	5.0/7.5	0.6
682	0.0068	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.5	4.4	7.5	5.0/7.5	0.6
822	0.0082	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	4.4	7.5	5.0/7.5	0.6
103	0.010	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	3.5	7.5	5.0/7.5	0.6
123	0.012	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	3.5	7.5	5.0/7.5	0.6
153	0.015	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	4.0	7.5	5.0/7.5	0.6
183	0.018	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	4.0	7.5	5.0/7.5	0.6
223	0.022	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	4.0	7.5	5.0/7.5	0.6
273	0.027	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	4.2	7.5	5.0/7.5	0.6
333	0.033	7.3	6.5	3.7	5.0	5.0	0.6	9.8	6.8	4.2	7.5	5.0/7.5	0.6
393	0.039	7.3	6.8	4.0	5.0	5.0	0.6	9.8	7.0	4.2	7.5	5.0/7.5	0.6
473	0.047	7.3	7.0	4.0	5.0	5.0	0.6	9.8	7.2	4.2	7.5	5.0/7.5	0.6
563	0.056	7.3	7.2	4.3	5.0	5.0	0.6	9.8	8.0	4.2	7.5	5.0/7.5	0.6
683	0.068	7.3	7.5	4.6	5.0	5.0	0.6	9.8	8.3	4.4	7.5	5.0/7.5	0.6
823	0.082	7.3	8.0	5.0	5.0	5.0	0.6	9.8	8.6	4.8	7.5	5.0/7.5	0.6
104	0.10	7.3	8.5	5.5	5.0	5.0	0.6	9.8	10.8	4.5	7.5	5.0/7.5	0.6
124	0.12	7.3	10.2	5.0	5.0	5.0	0.6	12.5	10.5	4.2	10.0	5.0/7.5/10.0	0.6
154	0.15	7.3	11.5	6.0	5.0	5.0	0.6	12.5	10.7	4.6	10.0	5.0/7.5/10.0	0.6
184	0.18	9.8	11.0	4.6	7.5	5.0/7.5	0.6	12.5	10.0	5.5	10.0	5.0/7.5/10.0	0.6
224	0.22	9.8	11.3	5.0	7.5	5.0/7.5	0.6	12.5	10.5	5.8	10.0	5.0/7.5/10.0	0.6
274	0.27	9.8	12.0	5.5	7.5	5.0/7.5	0.6	12.5	13.5	5.2	10.0	5.0/7.5/10.0	0.6
334	0.33	9.8	12.5	6.0	7.5	5.0/7.5	0.6	12.5	14.3	5.8	10.0	5.0/7.5/10.0	0.6
394	0.39	12.5	14.0	4.3	10.0	5.0/7.5/10.0	0.6	12.5	14.5	6.3	10.0	5.0/7.5/10.0	0.6
474	0.47	12.5	14.4	4.8	10.0	5.0/7.5/10.0	0.6	12.5	15.5	7.0	10.0	5.0/7.5/10.0	0.6
564	0.56	12.5	14.8	5.2	10.0	5.0/7.5/10.0	0.6	17.8	14.3	6.0	15.0	5.0/7.5/15.0	0.6
684	0.68	12.5	15.2	5.8	10.0	5.0/7.5/10.0	0.6	17.8	14.8	6.5	15.0	5.0/7.5/15.0	0.8
824	0.82	15.0	15.4	5.5	12.5	7.5/10.0/12.5	0.6	17.8	15.5	7.0	15.0	5.0/7.5/15.0	0.8
105	1.0	15.0	16.0	6.2	12.5	7.5/10.0/12.5	0.6	17.8	16.3	7.5	15.0	5.0/7.5/15.0	0.8
125	1.2	15.0	16.5	6.8	12.5	7.5/10.0/12.5	0.6	17.8	17.0	8.5	15.0	5.0/7.5/15.0	0.8
155	1.5	15.0	17.5	7.8	12.5	7.5/10.0/12.5	0.6	25.5	16.0	7.8	22.5	17.5/22.5	0.8
185	1.8	20.3	16.8	6.6	17.5	7.5/10.0/12.5	0.8	25.5	17.0	8.3	22.5	17.5/22.5	0.8
225	2.2	20.3	17.8	7.3	17.5	7.5/10.0/12.5	0.8	25.5	18.8	8.8	22.5	17.5/22.5	0.8
275	2.7	20.3	18.6	8.3	17.5	7.5/10.0/12.5	0.8	25.5	19.8	10.0	22.5	17.5/22.5	0.8
335	3.3	20.3	21.0	9.0	17.5	7.5/10.0/12.5	0.8	25.5	21.0	11.0	22.5	17.5/22.5	0.8
395	3.9	20.3	21.8	9.8	17.5	7.5/10.0/12.5	0.8	25.5	22.0	12.0	22.5	17.5/22.5	0.8
475	4.7	20.3	23.8	10.7	17.5	7.5/10.0/12.5	0.8	25.5	23.6	12.5	22.5	17.5/22.5	0.8
565	5.6	25.5	22.3	10.8	22.5	17.5/22.5	0.8						
685	6.8	25.5	23.5	12.0	22.5	17.5/22.5	0.8						
825	8.2	25.5	25.0	13.3	22.5	17.5/22.5	0.8						
106	10.0	25.5	27.5	13.8	22.5	17.5/22.5	0.8						

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Standard quantity packed in a box

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122	0.0012							9.8	5.5	3.5	7.5	5.0/7.5	0.6
152	0.0015							9.8	5.5	3.5	7.5	5.0/7.5	0.6
182	0.0018							9.8	5.5	3.5	7.5	5.0/7.5	0.6
222	0.0022							9.8	5.5	3.5	7.5	5.0/7.5	0.6
272	0.0027							9.8	5.5	3.5	7.5	5.0/7.5	0.6
332	0.0033							9.8	6.0	4.2	7.5	5.0/7.5	0.6
392	0.0039							9.8	6.0	4.2	7.5	5.0/7.5	0.6
472	0.0047							9.8	6.0	4.2	7.5	5.0/7.5	0.6
562	0.0056							9.8	6.5	4.2	7.5	5.0/7.5	0.6
682	0.0068							9.8	6.5	4.4	7.5	5.0/7.5	0.6
822	0.0082							9.8	6.8	4.4	7.5	5.0/7.5	0.6
103	0.010							9.8	7.7	4.2	7.5	5.0/7.5	0.6
123	0.012							9.8	7.7	4.2	7.5	5.0/7.5	0.6
153	0.015							9.8	8.0	4.2	7.5	5.0/7.5	0.6
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223	0.022							9.8	8.3	5.0	7.5	5.0/7.5	0.6
273	0.027							9.8	8.7	5.5	7.5	5.0/7.5	0.6
333	0.033							9.8	11.3	5.0	7.5	5.0/7.5	0.6
393	0.039							9.8	11.5	5.3	7.5	5.0/7.5	0.6
473	0.047							9.8	11.0	6.3	7.5	5.0/7.5	0.6
563	0.056							12.5	10.0	5.5	10.0	5.0/7.5/10.0	0.6
683	0.068							12.5	10.5	5.8	10.0	5.0/7.5/10.0	0.6
823	0.082							12.5	10.8	6.0	10.0	5.0/7.5/10.0	0.6
104	0.10	9.8	10.8	4.5	7.5	5.0/7.5	0.6	12.5	13.8	5.8	10.0	5.0/7.5/10.0	0.6
124	0.12	12.5	10.5	4.2	10.0	5.0/7.5/10.0	0.6	12.5	14.3	6.3	10.0	5.0/7.5/10.0	0.6
154	0.15	12.5	10.7	4.6	10.0	5.0/7.5/10.0	0.6	12.5	13.8	7.7	10.0	5.0/7.5/10.0	0.6
184	0.18	12.5	10.0	5.5	10.0	5.0/7.5/10.0	0.6	12.5	15.0	8.3	10.0	5.0/7.5/10.0	0.6
224	0.22	12.5	10.5	5.8	10.0	5.0/7.5/10.0	0.6	12.5	15.8	9.0	10.0	5.0/7.5/10.0	0.6
274	0.27	12.5	13.5	5.2	10.0	5.0/7.5/10.0	0.6	17.8	14.3	7.5	15.0	5.0/7.5/15.0	0.8
334	0.33	12.5	14.3	5.8	10.0	5.0/7.5/10.0	0.6	17.8	14.8	8.0	15.0	5.0/7.5/15.0	0.8
394	0.39	12.5	14.5	6.3	10.0	5.0/7.5/10.0	0.6	17.8	16.5	8.0	15.0	5.0/7.5/15.0	0.8
474	0.47	12.5	15.5	7.0	10.0	5.0/7.5/10.0	0.6	17.8	17.3	9.0	15.0	5.0/7.5/15.0	0.8
564	0.56	17.8	14.3	6.0	15.0	5.0/7.5/15.0	0.6	17.8	19.3	9.5	15.0	5.0/7.5/15.0	0.8
684	0.68	17.8	14.8	6.5	15.0	5.0/7.5/15.0	0.8	17.8	20.3	10.5	15.0	5.0/7.5/15.0	0.8
824	0.82	17.8	15.5	7.0	15.0	5.0/7.5/15.0	0.8	25.5	19.8	8.5	22.5	17.5/22.5	0.8
105	1.0	17.8	16.3	7.5	15.0	5.0/7.5/15.0	0.8	25.5	20.8	9.5	22.5	17.5/22.5	0.8
125	1.2	17.8	17.0	8.5	15.0	5.0/7.5/15.0	0.8	25.5	21.8	10.5	22.5	17.5/22.5	0.8
155	1.5	25.5	16.0	7.8	22.5	17.5/22.5	0.8	25.5	23.0	11.8	22.5	17.5/22.5	0.8
185	1.8	25.5	17.0	8.3	22.5	17.5/22.5	0.8	25.5	24.3	13.5	22.5	17.5/22.5	0.8
225	2.2	25.5	18.8	8.8	22.5	17.5/22.5	0.8	25.5	26.8	14.3	22.5	17.5/22.5	0.8

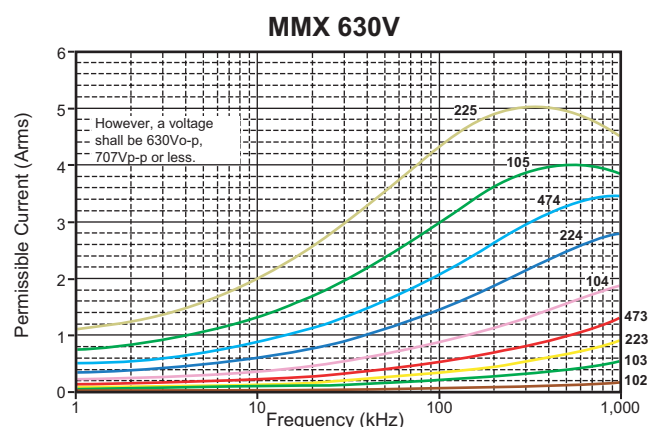
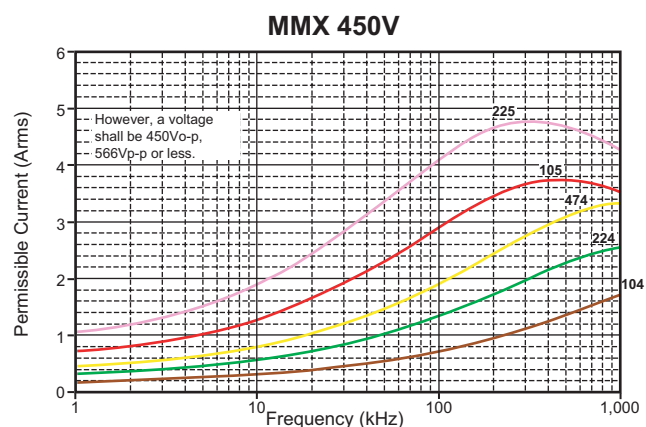
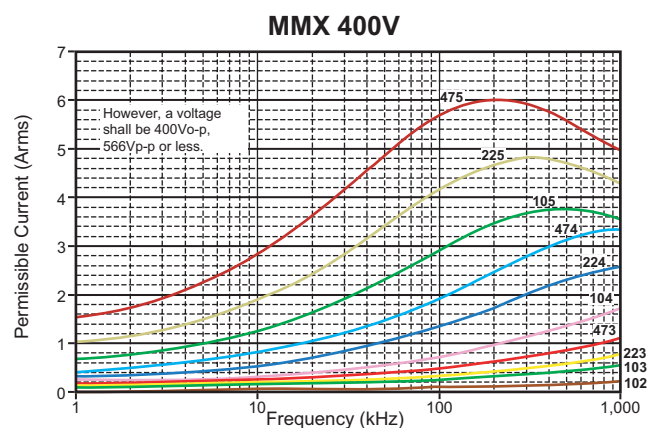
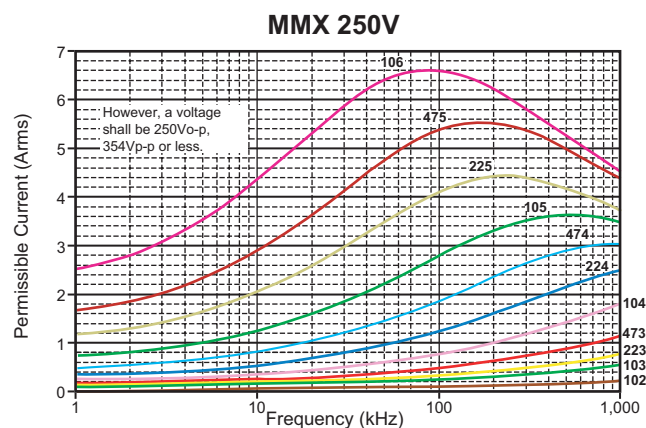
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Characteristics of permissible current to frequency



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