

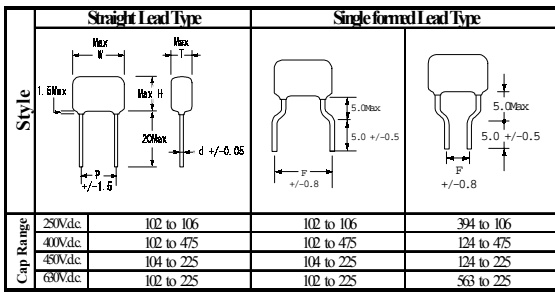
Features

- 1) Smaller version of MMC type.
- 2) Very small size, achieved by our unique manufacturing method.
- 3) Highly reliable because of its self-healing performance.
- 4) 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	Tangent of Loss Angle	0.008 or less (at 1KHz)
Rated Voltage	250, 400, 450*2, 630V.d.c.	Insulation Resistance	C ≤ 0.33μF 15,000MΩ or more C > 0.33μF 5,000ΩF or more
Capacitance	250V.d.c. 0.0010 to 10.0μF (E-12) 400V.d.c. 0.0010 to 4.7μF (E-12) 450V.d.c. 0.010 to 2.2μF (E-12) 630V.d.c. 0.0010 to 2.2μF (E-12)	Endurance	85°C WV x 125% 1000hr *3 ΔC/C±10% within tanδ 0.0011 or less IR C ≤ 0.33μF : 2,700MΩ or more C > 0.33μF : 900ΩF or more
Cap. Tolerance	±5% (J) ±10%(K)	Damp Heat	40°C 90 to 95%RH WV 500hr ΔC/C±10% within tanδ 0.011 or less IR C ≤ 0.33μF : 2,700MΩ or more C > 0.33μF : 900ΩF or more



*1 () Marked temperature shows operatable when voltage derated.
*2 Recommendable for Active filtering Circuit.
*3 450V.d.c. 85°C WV x 111% 1000hr

Dimensions(mm)

MMX	Cap(μF)	MMX 250V.d.c.								MMX 400V.d.c.								MMX 450V.d.c.								MMX 630V.d.c.							
		W	H	T	P	F	φd	W	H	T	P	F	φd	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							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							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							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							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							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							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							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							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							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							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							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							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							9.8	7.7	4.2	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							9.8	7.7	4.2	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							9.8	8.0	4.2	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							9.8	8.3	4.4	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							9.8	8.3	5.0	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							9.8	8.7	5.5	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							9.8	11.3	5.0	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							9.8	11.5	5.3	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							9.8	11.0	6.3	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							12.5	10.0	5.5	10.0	5.0/7.5/10.0	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							12.5	10.5	5.8	10.0	5.0/7.5/10.0	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							12.5	10.8	6.0	10.0	5.0/7.5/10.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	14.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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								
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																										

When using our capac