

特徴／Features

- MMCタイプを更に、小型化した製品です。
- 自己回復作用があるため、信頼性に優れております。
- 外装は最新のエポキシ加工により難燃性のエポキシ樹脂による均一な厚さで覆われていますので小型軽量となっています。

- ★Smaller version of MMC type.
- ★Highly reliable because of its self-healing performance.
- ★Uniform flame-retardant epoxy resin coating through the latest resin tecnology. This provides miniature size and light weight.

規格／Specifications

使用温度範囲 Temp. range	-40~+85°C (+105°C)※ ¹	絶縁抵抗 Insulation resistance	$C \leq 0.33 \mu F$ 15,000M Ω ^{以上} _{or more} $C > 0.33 \mu F$ 5,000 Ω F ^{以上} _{or more}
定格電圧 Rated voltage	250V, 400V, 450V※ ² , 630Vdc	高温負荷 Endurance	85°C、WV×125% 1000hr印加 ※ ³ $\Delta C/C \pm 10\%$ ^{以上} _{or more} in $\tan \delta$ 0.011 ^{以下} _{or less} IR $C \leq 0.33 \mu F$ 2,700M Ω ^{以上} _{or more} $C > 0.33 \mu F$ 900 Ω F ^{以上} _{or more}
静電容量範囲 Capacitance	250Vdc 0.0010~10 μF (E-12), 450Vdc 0.10~2.2 μF (E-12) 400Vdc 0.0010~4.7 μF (E-12), 630Vdc 0.0010~2.2 μF (E-12)	耐湿負荷 Damp heat	40°C、90~95%RH、WV 500hr印加 $\Delta C/C \pm 10\%$ ^{以上} _{or more} in $\tan \delta$ 0.011 ^{以下} _{or less} IR $C \leq 0.33 \mu F$ 2,700M Ω ^{以上} _{or more} $C > 0.33 \mu F$ 900 Ω F ^{以上} _{or more}
静電容量許容差 Cap. tolerance	±5% (J), ±10% (K)		
誘電正接 Tangent of loss angle	0.008 ^{以下} _{or less} (at 1kHz)		

※¹ () 温度は電圧軽減による使用可能範囲です。※² 450Vdcはアクティブフィルタ専用※³ 450Vdcは85°C WV×111% 1000Hr印加※¹ () Marked temperature shows operatable when voltage is derated.※² 450Vdc:Recommendable for Active filtering circuit.※³ 450Vdc:85°C WV×111% 1000hr applied.

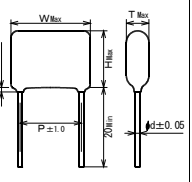
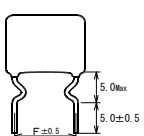
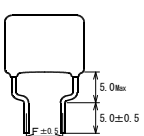
寸法／Dimension (mm)

Cap CODE	Cap (μF)	基準収納数 NUMBER OF PIECES FOR PACKING UNIT														基準収納数 NUMBER OF PIECES FOR PACKING UNIT													
		MMX 250Vdc							MMX 400Vdc							MMX 250Vdc							MMX 400Vdc						
		W	H	T	P	F	φ d	テーピング Taping	Bag	Box	Bag	Box	W	H	T	P	F	φ d	テーピング Taping	Bag	Box	Bag	Box						
102	0.0010	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
122	0.0012	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
152	0.0015	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
182	0.0018	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
222	0.0022	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
272	0.0027	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
332	0.0033	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
392	0.0039	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
472	0.0047	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
562	0.0056	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.5	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
682	0.0068	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.5	4.4	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
822	0.0082	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	4.4	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
103	0.010	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
123	0.012	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000						
153	0.015	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	4.0	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
183	0.018	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	4.0	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
223	0.022	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	4.0	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
273	0.027	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
333	0.033	7.3	6.5	3.7	5.0	5.0	0.6	2,000	200	2,000	200	2,000	9.8	6.8	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000						
393	0.039	7.3	6.8	4.0	5.0	5.0	0.6	1,000	200	2,000	200	2,000	9.8	7.0	4.2	7.5	5.0/7.5	0.6	1,000	200	1,600	200	1,600						
473	0.047	7.3	7.0	4.0	5.0	5.0	0.6	1,000	200	2,000	200	2,000	9.8	7.2	4.2	7.5	5.0/7.5	0.6	1,000	200	1,600	200	1,600						
563	0.056	7.3	7.2	4.3	5.0	5.0	0.6	1,000	200	2,000	200	2,000	9.8	8.0	4.2	7.5	5.0/7.5	0.6	1,000	200	1,600	200	1,600						
683	0.068	7.3	7.5	4.6	5.0	5.0	0.6	1,000	200	2,000	200	2,000	9.8	8.3	4.4	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500						
823	0.082	7.3	8.0	5.0	5.0	5.0	0.6	1,000	200	2,000	200	2,000	9.8	8.6	4.8	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500						
104	0.10	7.3	8.5	5.5	5.0	5.0	0.6	1,000	200	2,000	200	2,000	9.8	10.8	4.5	7.5	5.0/7.5	0.6	1,000	100	1,000	100	1,000						
124	0.12	7.3	10.2	5.0	5.0	5.0	0.6	1,000	200	2,000	200	2,000	12.5	10.5	4.2	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000						
154	0.15	7.3	11.5	6.0	5.0	5.0	0.6	1,000	200	2,000	200	2,000	12.5	10.7	4.6	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000						
184	0.18	9.8	11.0	4.6	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500	12.5	10.0	5.5	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000						
224	0.22	9.8	11.3	5.0	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500	12.5	10.5	5.8	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000						
274	0.27	9.8	12.0	5.5	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500	12.5	13.5	5.2	10.0	5.0/7.5	0.6	1,000	100	500	100	500						
334	0.33	9.8	12.5	6.0	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500	12.5	14.3	5.8	10.0	5.0/7.5	0.6	1,000	100	500	100	500						
394	0.39	12.5	14.0	4.3	10.0	5.0/7.5/10.0	0.6	1,000	100	1,000	100	1,000	12.5	14.5	6.3	10.0	5.0/7.5	0.6	500	50	500	50	500						
474	0.47	12.5	14.4	4.8	10.0	5.0/7.5/10.0	0.6	1,000	100	1,000	100	1,000	12.5	15.5	7.0	10.0	5.0/7.5	0.6	500	50	500	50	500						
564	0.56	12.5	14.8	5.2	10.0	5.0/7.5/10.0	0.6	1,000	100	500	100	500	17.8	14.3	6.0	15.0	5.0/7.5/15.0	0.6	500	50	500	50	500						
684	0.68	12.5	15.2	5.8	10.0	5.0/7.5/10.0	0.6	1,000	100	500	100	500	17.8	14.8	6.5	15.0	5.0/7.5/15.0	0.8	400	50	500	50	500						
824	0.82	15.0	15.4	5.5	12.5	7.5/10.0/12.5	0.6	500	100	500	100	500	17.8	15.5	7.0	15.0	5.0/7.5/15.0	0.8	400	50	500	50	500						
105	1.0	15.0	16.0	6.2	12.5	7.5/10.0/12.5	0.6	400	100	500	100	500	17.8	16.3	7.5	15.0	5.0/7.5/15.0	0.8	400	50	400	50	400						
125	1.2	15.0	16.5	6.8	12.5	7.5/10.0/12.5	0.6	400	100	500	100	500	17.8	17.0	8.5	15.0	5.0/7.5/15.0	0.8	300	50	400	50	400						
155	1.5	15.0	17.5	7.8	12.5	7.5/10.0/12.5	0.6	400	100	500	100	500	25.5	16.0	7.8	22.5	17.5/22.5	0.8		50	200	50	200						
185	1.8	20.3	16.8	6.6	17.5	7.5/10.0/12.5	0.8	400	50	250	50	250	25.5	17.0	8.3	22.5	17.5/22.5	0.8		50	200	50	200						
225	2.2	20.3	17.8	7.3	17.5	7.5/10.0/12.5	0.8	400	50	250	50	250	25.5	18.8	8.8	22.5	17.5/22.5	0.8		50	200	50	200						
275	2.7	20.3	18.6	8.3	17.5	7.5/10.0/12.5	0.8	300	50	200	50	200	25.5	19.8	10.0	22.5	17.5/22.5	0.8		20	100	20	100						
335	3.3	20.3	21.0	9.0	17.5	7.5/10.0/12.5	0.8	300	50	200	50	200	25.5	21.0	11.0	22.5	17.5/22.5	0.8		20	100	20	100						
395	3.9	20.3	21.8	9.8	17.5	7.5/10.0/12.5	0.8	300	50	200	50	200	25.5	22.0	12.0	22.5	17.5/22.5	0.8		20	100	20	100						
475	4.7	20.3	23.8	10.7	17.5	7.5/10.0/12.5	0.8		50	200	50	200	25.5	23.6	12.5	22.5	17.5/22.5	0.8		20	100	20	100						
565	5.6	25.5	22.3	10.8	22.5	17.5/22.5	0.8		20	100	20	100																	
685	6.8	25.5	23.5	12.0	22.5	17.5/22.5	0.8		20	100	20	100																	
825	8.2	25.5	25.0	13.3	22.5	17.5/22.5	0.8		20	100	20	100																	
106	10.0	25.5	27.5	13.8	22.5	17.5/22.5	0.8		20	100	20	100																	

寸法／Dimension (mm)

Cap CODE	Cap (μ F)	MMX 450Vdc						基準収納数 NUMBER OF PIECES FOR PACKING UNIT					
								テーピング Taping		ロング Long		フォーミング Formed	
		W	H	T	P	F	ϕ d	Ammo	Bag	Box	Bag	Box	
104	0.10	9.8	10.8	4.5	7.5	5.0/7.5	0.6	1,000	100	1,000	100	1,000	
124	0.12	12.5	10.5	4.2	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000	
154	0.15	12.5	10.7	4.6	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000	
184	0.18	12.5	10.0	5.5	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000	
224	0.22	12.5	10.5	5.8	10.0	5.0/7.5	0.6	1,000	100	1,000	100	1,000	
274	0.27	12.5	13.5	5.2	10.0	5.0/7.5	0.6	1,000	100	500	100	500	
334	0.33	12.5	14.3	5.8	10.0	5.0/7.5	0.6	1,000	100	500	100	500	
394	0.39	12.5	14.5	6.3	10.0	5.0/7.5	0.6	500	50	500	50	500	
474	0.47	12.5	15.5	7.0	10.0	5.0/7.5	0.6	500	50	500	50	500	
564	0.56	17.8	14.3	6.0	15.0	5.0/7.5/15.0	0.6	500	50	500	50	500	
684	0.68	17.8	14.8	6.5	15.0	5.0/7.5/15.0	0.8	400	50	500	50	500	
824	0.82	17.8	15.5	7.0	15.0	5.0/7.5/15.0	0.8	400	50	500	50	500	
105	1.0	17.8	16.3	7.5	15.0	5.0/7.5/15.0	0.8	400	50	400	50	400	
125	1.2	17.8	17.0	8.5	15.0	5.0/7.5/15.0	0.8	300	50	400	50	400	
155	1.5	25.5	16.0	7.8	22.5	17.5/22.5	0.8		50	200	50	200	
185	1.8	25.5	17.0	8.3	22.5	17.5/22.5	0.8		50	200	50	200	
225	2.2	25.5	18.8	8.8	22.5	17.5/22.5	0.8		50	200	50	200	

Cap CODE	Cap (μ F)	MMX 630Vdc							基準収納数 NUMBER OF PIECES FOR PACKING UNIT					
								テーピング Taping	ロング Long	フォーミング Formed				
		W	H	T	P	F	ϕ d	Ammo	Bag	Box	Bag	Box		
102	0.0010	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000		
122	0.0012	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000		
152	0.0015	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000		
182	0.0018	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000		
222	0.0022	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000		
272	0.0027	9.8	5.5	3.5	7.5	5.0/7.5	0.6	2,000	200	2,000	200	2,000		
332	0.0033	9.8	6.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
392	0.0039	9.8	6.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
472	0.0047	9.8	6.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
562	0.0056	9.8	6.5	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
682	0.0068	9.8	6.5	4.4	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
822	0.0082	9.8	6.8	4.4	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
103	0.010	9.8	7.7	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
123	0.012	9.8	7.7	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
153	0.015	9.8	8.0	4.2	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
183	0.018	9.8	8.3	4.4	7.5	5.0/7.5	0.6	1,000	200	2,000	200	2,000		
223	0.022	9.8	8.3	5.0	7.5	5.0/7.5	0.6	1,000	200	1,600	200	1,600		
273	0.027	9.8	8.7	5.5	7.5	5.0/7.5	0.6	1,000	200	1,600	200	1,600		
333	0.033	9.8	11.3	5.0	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500		
393	0.039	9.8	11.5	5.3	7.5	5.0/7.5	0.6	1,000	100	1,500	100	1,500		
473	0.047	9.8	11.0	6.3	7.5	5.0/7.5	0.6	1,000	100	1,000	100	1,000		
563	0.056	12.5	10.0	5.5	10.0	5.0/7.5/10.0	0.6	1,000	100	1,000	100	1,000		
683	0.068	12.5	10.5	5.8	10.0	5.0/7.5/10.0	0.6	1,000	100	1,000	100	1,000		
823	0.082	12.5	10.8	6.0	10.0	5.0/7.5/10.0	0.6	1,000	100	1,000	100	1,000		
104	0.10	12.5	13.8	5.8	10.0	5.0/7.5/10.0	0.6	1,000	100	500	100	500		
124	0.12	12.5	14.3	6.3	10.0	5.0/7.5/10.0	0.6	1,000	50	500	50	500		
154	0.15	12.5	13.8	7.7	10.0	5.0/7.5/10.0	0.6	500	50	500	50	500		
184	0.18	12.5	15.0	8.3	10.0	5.0/7.5/10.0	0.6	500	50	500	50	500		
224	0.22	12.5	15.8	9.0	10.0	5.0/7.5/10.0	0.6	500	50	500	50	500		
274	0.27	17.8	14.3	7.5	15.0	5.0/7.5/15.0	0.8	400	50	400	50	400		
334	0.33	17.8	14.8	8.0	15.0	5.0/7.5/15.0	0.8	300	50	400	50	400		
394	0.39	17.8	16.5	8.0	15.0	5.0/7.5/15.0	0.8	300	50	400	50	400		
474	0.47	17.8	17.3	9.0	15.0	5.0/7.5/15.0	0.8	300	50	400	50	400		
564	0.56	17.8	19.3	9.5	15.0	5.0/7.5/15.0	0.8	300	50	200	50	200		
684	0.68	17.8	20.3	10.5	15.0	5.0/7.5/15.0	0.8		50	200	50	200		
824	0.82	25.5	19.8	8.5	22.5	17.5/22.5	0.8		20	100	20	100		
105	1.0	25.5	20.8	9.5	22.5	17.5/22.5	0.8		20	100	20	100		
125	1.2	25.5	21.8	10.5	22.5	17.5/22.5	0.8		20	100	20	100		
155	1.5	25.5	23.0	11.8	22.5	17.5/22.5	0.8		20	100	20	100		
185	1.8	25.5	24.3	13.5	22.5	17.5/22.5	0.8		20	100	20	100		
225	2.2	25.5	26.8	14.3	22.5	17.5/22.5	0.8		20	100	20	100		

形状 Style	ストレートリード Straight lead type		フォーミング Forming lead type		
					
Cap範囲 Cap range	250Vdc	102~106	F= 5.0	102~334	394~684
			F= 7.5	184~684	824~475
			F=10.0	394~155	185~475
			F=12.5	824~155	185~475
			F=17.5		565~106
			F=22.5	565~106	
	400Vdc	102~475	F= 5.0	102~104	124~125
			F= 7.5	102~474	564~125
			F=10.0	124~474	
			F=15.0	564~125	
			F=17.5		155~475
			F=22.5	155~475	
	450Vdc	104~225	F= 5.0	104	124~125
			F= 7.5	104~474	564~125
			F=10.0	124~474	
			F=15.0	564~125	
			F=17.5		155~225
			F=22.5	155~225	
	630Vdc	102~225	F= 5.0	102~473	563~684
			F= 7.5	102~224	274~684
			F=10.0	563~224	
			F=15.0	274~684	
			F=17.5		824~225
			F=22.5	824~225	

周波数に対する許容電流特性／Characteristics of permissible current to frequency

