

MMB SERIES

◆FEATURES

- Small and light.
- Reliability is excellent because these capacitors provide self-healing.
- Coated with flame-retardant (UL94 V-0) epoxy resin.
- RoHS compliance.

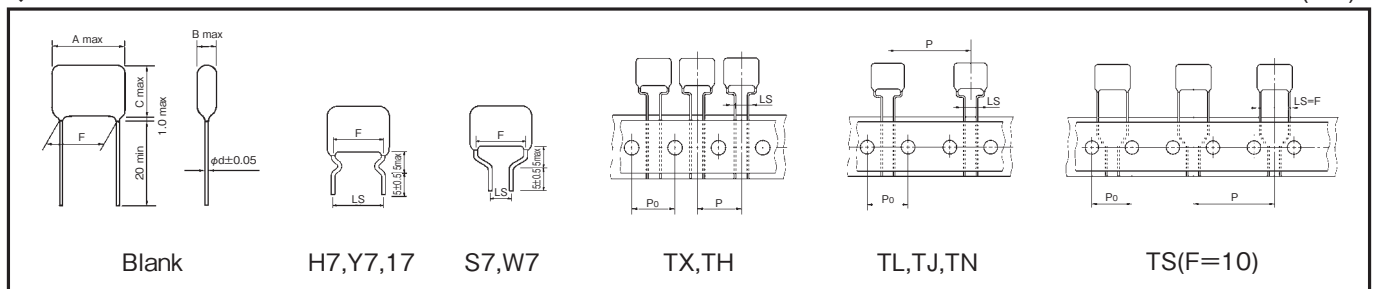


◆SPECIFICATIONS

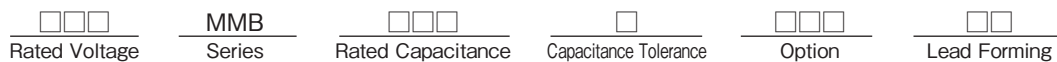
Category Temperature Range	$-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ /Derate the voltage as shown in the "CAUTION FOR PROPER USE OF FILM CAPACITORS" when using the capacitor beyond 85°C .)
Rated Voltage (U_R)	100VDC, 250VDC, 400VDC, 630VDC
Capacitance Tolerance	$\pm 5\%(\text{J}), \pm 10\%(\text{K})$
$\tan \delta$	0.01max at 1kHz
Voltage Proof	$U_R \times 150\%$ 60s
Insulation Resistance	$C \leq 0.33\mu\text{F}: 9000\text{M}\Omega\text{min}$ $C > 0.33\mu\text{F}: 3000\Omega\text{Fmin}$
Reference Standard	JIS C 5101-2, JIS C 5101-1

◆OUTLINE

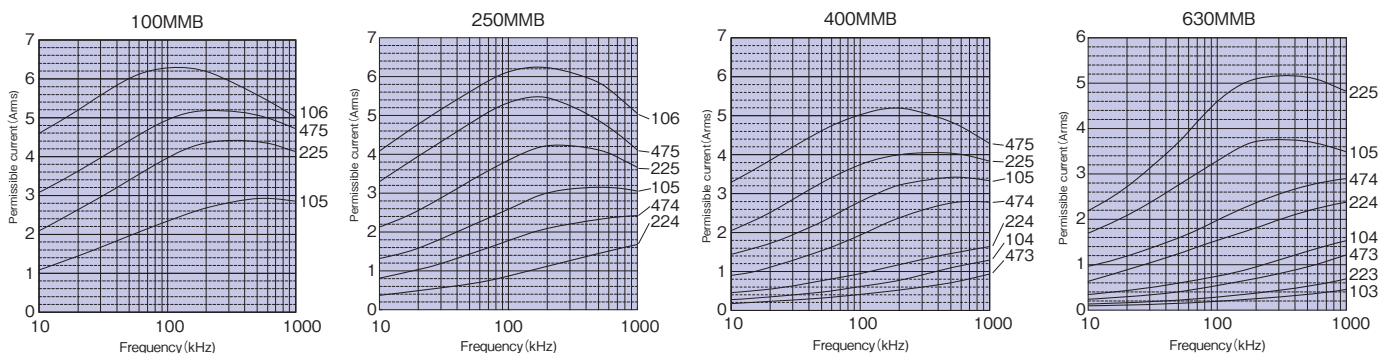
(mm)



◆PART NUMBER



◆PERMISSIBLE CURRENT FOR FREQUENCY



◆STANDARD SIZE

□ : Tolerance ** : Suffix

Rated Voltage	Cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)							Part No.
								Long Lead type		Taping Ammo Pack Type - Style					
		A	B	C	F±1.0	LS±0.5	d	Bag	Carton	TC	TX, TH	TL, TJ	TN	TS	
100 VDC	0.56	12.5	5.6	11.4	10.0	5.0/7.5/10.0	0.6	200	2,000	—	1,000	500	—	500	100MMB564□**
	0.68	12.5	6.4	11.9	10.0	5.0/7.5/10.0	0.6	200	2,000	—	1,000	500	—	500	100MMB684□**
	0.82	12.5	6.0	14.0	10.0	5.0/7.5/10.0	0.6	200	1,000	—	1,000	500	—	500	100MMB824□**
	1	12.5	6.6	14.6	10.0	5.0/7.5/10.0	0.6	200	2,000	—	1,000	500	—	500	100MMB105□**
	1.2	18.0	6.5	14.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	100MMB125□**
	1.5	18.0	7.5	15.0	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	100MMB155□**
	1.8	18.0	8.0	15.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	400	400	—	100MMB185□**
	2.2	18.0	8.5	16.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	400	400	—	100MMB225□**
	2.7	18.0	9.5	17.5	15.0	5.0/7.5/15.0	0.8	100	1,000	—	—	—	—	—	100MMB275□**
	3.3	18.0	10.0	18.0	15.0	5.0/7.5/15.0	0.8	200	1,000	—	—	—	—	—	100MMB335□**
	3.9	25.5	10.0	16.5	22.5	22.5	0.8	200	1,000	—	—	—	—	—	100MMB395□**
	4.7	25.5	11.0	17.5	22.5	22.5	0.8	200	1,000	—	—	—	—	—	100MMB475□**
	5.6	25.5	10.5	19.5	22.5	22.5	0.8	200	800	—	—	—	—	—	100MMB565□**
	6.8	25.5	11.5	20.5	22.5	22.5	0.8	100	500	—	—	—	—	—	100MMB685□**
	8.2	25.5	12.0	23.0	22.5	22.5	0.8	100	500	—	—	—	—	—	100MMB825□**
	10	25.5	13.0	24.0	22.5	22.5	0.8	100	500	—	—	—	—	—	100MMB106□**
250 VDC	0.18	12.8	5.0	11.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	250MMB184□**
	0.22	12.8	5.5	11.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	250MMB224□**
	0.27	12.8	6.5	12.0	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	250MMB274□**
	0.33	12.8	6.5	13.0	10.0	5.0/7.5/10.0	0.6	200	3,000	—	1,000	500	—	500	250MMB334□**
	0.39	18.0	5.0	11.0	15.0	5.0/7.5/15.0	0.6	200	3,000	—	—	500	500	—	250MMB394□**
	0.47	18.0	5.5	11.5	15.0	5.0/7.5/15.0	0.6	100	3,000	—	—	500	500	—	250MMB474□**
	0.56	18.0	5.5	13.0	15.0	5.0/7.5/15.0	0.6	100	2,000	—	—	500	500	—	250MMB564□**
	0.68	18.0	6.0	13.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	500	—	250MMB684□**
	0.82	18.0	6.5	14.0	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	250MMB824□**
	1	18.0	7.0	14.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	250MMB105□**
	1.2	18.0	7.3	16.5	15.0	5.0/7.5/15.0	0.8	200	1,000	—	—	400	400	—	250MMB125□**
	1.5	18.0	8.3	17.0	15.0	5.0/7.5/15.0	0.8	200	1,000	—	—	400	300	—	250MMB155□**
	1.8	25.5	7.0	16.2	22.5	22.5	0.8	200	1,000	—	—	—	—	—	250MMB185□**
	2.2	25.5	7.8	17.0	22.5	22.5	0.8	200	1,000	—	—	—	—	—	250MMB225□**
	2.7	25.5	9.0	18.0	22.5	22.5	0.8	200	800	—	—	—	—	—	250MMB275□**
	3.3	25.5	10.0	19.0	22.5	22.5	0.8	200	800	—	—	—	—	—	250MMB335□**
	3.9	25.5	11.0	20.0	22.5	22.5	0.8	100	500	—	—	—	—	—	250MMB395□**
	4.7	25.5	12.3	21.3	22.5	22.5	0.8	100	500	—	—	—	—	—	250MMB475□**
	5.6	31.0	11.0	22.0	27.5	—	0.8	100	500	—	—	—	—	—	250MMB565□**
	6.8	31.0	12.5	23.3	27.5	—	0.8	100	400	—	—	—	—	—	250MMB685□**
	8.2	31.0	14.0	24.5	27.5	—	0.8	50	400	—	—	—	—	—	250MMB825□**
	10	31.0	15.7	26.3	27.5	—	0.8	50	300	—	—	—	—	—	250MMB106□**

◆STANDARD SIZE

□ : Tolerance ** : Suffix

Rated Voltage	Cap(μF)	Dimensions (mm)						Typical Packaging Quantity (pcs)							Part No.
								Long Lead type		Taping Ammo Pack Type - Style					
		A	B	C	F±1.0	LS±0.5	d	Bag	Carton	TC	TX, TH	TL, TJ	TN	TS	
400 VDC	0.039	12.8	5.0	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	400MMB393□**
	0.047	12.8	5.0	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	400MMB473□**
	0.056	12.8	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	400MMB563□**
	0.068	12.8	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,000	500	—	500	400MMB683□**
	0.082	12.8	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	400MMB823□**
	0.1	12.8	6.0	9.5	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	400MMB104□**
	0.12	18.0	5.5	9.0	15.0	5.0/7.5/15.0	0.6	200	4,000	—	—	500	500	—	400MMB124□**
	0.15	18.0	6.0	9.0	15.0	5.0/7.5/15.0	0.6	200	4,000	—	—	500	500	—	400MMB154□**
	0.18	18.0	6.5	9.5	15.0	5.0/7.5/15.0	0.6	200	3,000	—	—	500	500	—	400MMB184□**
	0.22	18.0	5.5	12.5	15.0	5.0/7.5/15.0	0.6	100	3,000	—	—	500	500	—	400MMB224□**
	0.27	18.0	6.0	13.0	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	500	—	400MMB274□**
	0.33	18.0	6.5	13.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	400MMB334□**
	0.39	18.0	7.0	14.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	400MMB394□**
	0.47	18.0	7.5	16.0	15.0	5.0/7.5/15.0	0.8	100	1,000	—	—	500	400	—	400MMB474□**
	0.56	25.5	6.0	15.0	22.5	22.5	0.8	200	1,000	—	—	—	—	—	400MMB564□**
	0.68	25.5	6.5	15.5	22.5	22.5	0.8	200	1,000	—	—	—	—	—	400MMB684□**
	0.82	25.5	7.0	16.5	22.5	22.5	0.8	200	1,000	—	—	—	—	—	400MMB824□**
	1	25.5	7.5	18.5	22.5	22.5	0.8	200	1,000	—	—	—	—	—	400MMB105□**
	1.2	25.5	8.5	18.5	22.5	22.5	0.8	200	800	—	—	—	—	—	400MMB125□**
	1.5	31.0	8.5	19.0	27.5	—	0.8	200	800	—	—	—	—	—	400MMB155□**
1.8	31.0	9.0	20.0	27.5	—	0.8	100	500	—	—	—	—	—	400MMB185□**	
2.2	31.0	10.5	21.0	27.5	—	0.8	100	500	—	—	—	—	—	400MMB225□**	
2.7	31.0	12.0	22.0	27.5	—	0.8	100	500	—	—	—	—	—	400MMB275□**	
3.3	31.0	13.0	24.0	27.5	—	0.8	50	400	—	—	—	—	—	400MMB335□**	
3.9	31.0	14.5	25.0	27.5	—	0.8	50	400	—	—	—	—	—	400MMB395□**	
4.7	31.0	16.0	27.0	27.5	—	0.8	50	300	—	—	—	—	—	400MMB475□**	
630 VDC	0.01	12.8	4.5	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	630MMB103□**
	0.012	12.8	5.0	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	630MMB123□**
	0.015	12.8	5.3	8.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB153□**
	0.018	12.8	5.5	10.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB183□**
	0.022	12.8	5.5	10.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB223□**
	0.027	12.8	5.5	10.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB273□**
	0.033	12.8	6.0	11.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB333□**
	0.039	12.8	6.0	13.0	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	630MMB393□**
	0.047	12.8	6.5	13.3	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	630MMB473□**
	0.056	18.0	5.5	10.3	15.0	5.0/7.5/15.0	0.6	200	4,000	—	—	500	500	—	630MMB563□**
	0.068	18.0	6.0	10.7	15.0	5.0/7.5/15.0	0.6	200	3,000	—	—	500	500	—	630MMB683□**
	0.082	18.0	6.0	11.2	15.0	5.0/7.5/15.0	0.6	100	3,000	—	—	500	500	—	630MMB823□**
	0.1	18.0	6.0	13.0	15.0	5.0/7.5/15.0	0.6	100	3,000	—	—	500	500	—	630MMB104□**
	0.12	18.0	6.5	13.5	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	500	—	630MMB124□**
	0.15	18.0	7.0	14.2	15.0	5.0/7.5/15.0	0.8	100	2,000	—	—	500	400	—	630MMB154□**
	0.18	18.0	7.5	15.0	15.0	5.0/7.5/15.0	0.8	100	1,000	—	—	400	400	—	630MMB184□**
	0.22	18.0	8.3	15.6	15.0	5.0/7.5/15.0	0.8	200	1,000	—	—	400	300	—	630MMB224□**
	0.27	25.5	7.0	14.5	22.5	22.5	0.8	200	1,000	—	—	—	—	—	630MMB274□**
	0.33	25.5	7.8	15.0	22.5	22.5	0.8	200	1,000	—	—	—	—	—	630MMB334□**
	0.39	25.5	8.0	17.0	22.5	22.5	0.8	200	1,000	—	—	—	—	—	630MMB394□**
	0.47	25.5	8.8	18.0	22.5	22.5	0.8	200	800	—	—	—	—	—	630MMB474□**
	0.56	25.5	9.0	20.0	22.5	22.5	0.8	200	800	—	—	—	—	—	630MMB564□**
	0.68	25.5	10.3	21.0	22.5	22.5	0.8	100	500	—	—	—	—	—	630MMB684□**
	0.82	31.0	9.8	20.5	27.5	—	0.8	100	500	—	—	—	—	—	630MMB824□**
	1	31.0	11.0	22.0	27.5	—	0.8	100	500	—	—	—	—	—	630MMB105□**
	1.2	31.0	12.5	23.0	27.5	—	0.8	100	400	—	—	—	—	—	630MMB125□**
1.5	31.0	14.0	24.5	27.5	—	0.8	50	400	—	—	—	—	—	630MMB155□**	
1.8	31.0	15.5	26.0	27.5	—	0.8	50	300	—	—	—	—	—	630MMB185□**	
2.2	31.0	17.0	28.0	27.5	—	0.8	50	300	—	—	—	—	—	630MMB225□**	