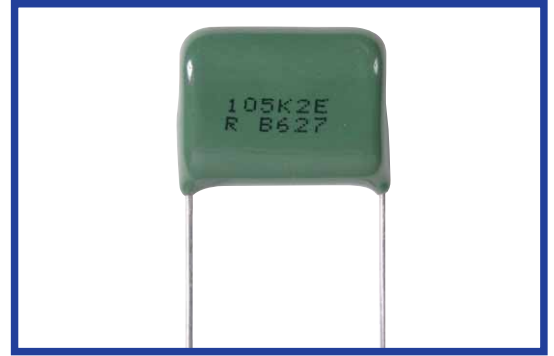


MMB SERIES

Standard

◆FEATURES

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

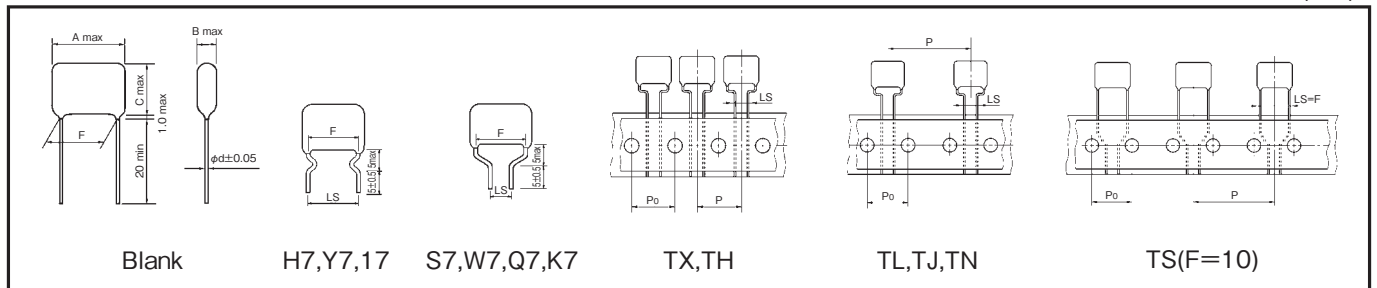


◆SPECIFICATIONS

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	$\pm 10\%(\text{K})$
$\tan \delta$	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

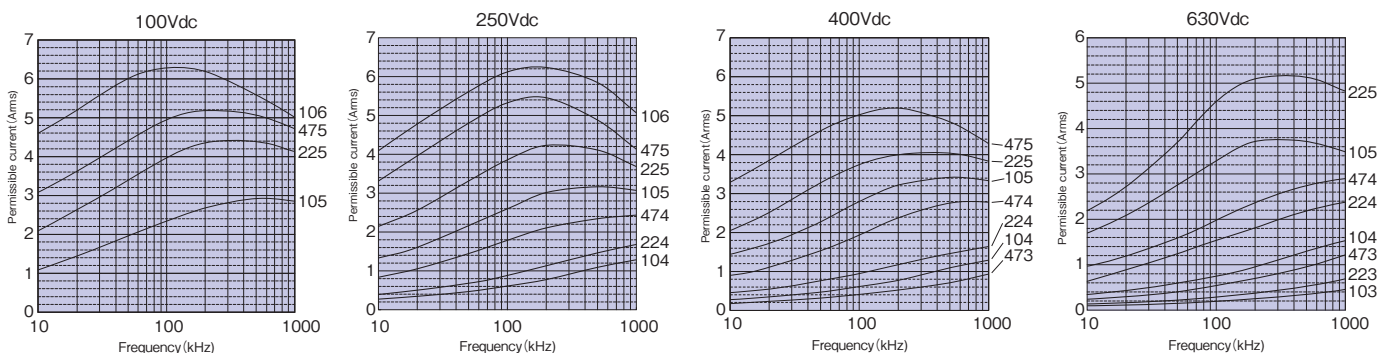
(mm)



◆PART NUMBER

Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming

◆PERMISSIBLE CURRENT FOR FREQUENCY



◆STANDARD SIZE

□ : Capacitance Tolerance

** : Lead Forming

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	13.0	6.0	11.5	10.0	5.0/7.5/10.0	0.6	200	2,000	—	1,000	500	—	500	100MMB564□**
	0.68	13.0	6.0	12.0	10.0	5.0/7.5/10.0	0.6	200	2,000	—	1,000	500	—	500	100MMB684□**
	0.82	13.0	6.5	14.0	10.0	5.0/7.5/10.0	0.6	200	1,000	—	1,000	500	—	500	100MMB824□**
	1	13.0	7.0	14.5	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	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	100MMB125□**
	1.5	18.0	7.5	15.0	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	100MMB155□**
	1.8	18.0	8.0	15.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	400	400	—	100MMB185□**
	2.2	18.0	8.5	16.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	400	400	—	100MMB225□**
	2.7	18.0	9.5	17.5	15.0	5.0/7.5/10.0/15.0	0.8	100	1,000	—	—	—	—	—	100MMB275□**
	3.3	18.0	10.0	18.0	15.0	5.0/7.5/10.0/15.0	0.8	200	1,000	—	—	—	—	—	100MMB335□**
	3.9	25.5	10.0	17.0	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	100MMB395□**
	4.7	25.5	11.0	18.0	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	100MMB475□**
	5.6	25.5	10.5	19.5	22.5	15.0/22.5	0.8	200	800	—	—	—	—	—	100MMB565□**
	6.8	25.5	11.5	20.5	22.5	15.0/22.5	0.8	100	500	—	—	—	—	—	100MMB685□**
	8.2	25.5	12.0	23.0	22.5	15.0/22.5	0.8	100	500	—	—	—	—	—	100MMB825□**
	10	25.5	13.0	24.5	22.5	15.0/22.5	0.8	100	500	—	—	—	—	—	100MMB106□**
250 Vdc	0.1	13.0	6.0	12.0	10.0	5.0/7.5/10.0	0.6	200	3,000	—	1,000	500	—	500	250MMB104□F1P**
	0.12	13.0	6.5	12.5	10.0	5.0/7.5/10.0	0.6	200	3,000	—	500	500	—	500	250MMB124□F1P**
	0.15	13.0	7.0	13.0	10.0	5.0/7.5/10.0	0.6	200	2,000	—	500	500	—	500	250MMB154□F1P**
	0.18	13.0	5.0	11.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	250MMB184□**
	0.22	13.0	6.0	11.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	250MMB224□**
	0.27	13.0	6.5	12.0	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	250MMB274□**
	0.33	13.0	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	5.0/7.5/10.0/15.0	0.6	200	3,000	—	—	500	500	—	250MMB394□**
	0.47	18.0	6.0	11.5	15.0	5.0/7.5/10.0/15.0	0.6	100	3,000	—	—	500	500	—	250MMB474□**
	0.56	18.0	6.0	13.0	15.0	5.0/7.5/10.0/15.0	0.6	100	2,000	—	—	500	500	—	250MMB564□**
	0.68	18.0	6.5	13.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	500	—	250MMB684□**
	0.82	18.5	7.0	14.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	250MMB824□**
	1	18.5	7.5	14.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	250MMB105□**
	1.2	18.5	7.5	16.5	15.0	5.0/7.5/10.0/15.0	0.8	200	1,000	—	—	400	400	—	250MMB125□**
	1.5	18.5	8.5	17.0	15.0	5.0/7.5/10.0/15.0	0.8	200	1,000	—	—	400	300	—	250MMB155□**
	1.8	25.5	7.0	16.5	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	250MMB185□**
	2.2	25.5	8.5	17.0	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	250MMB225□**
	2.7	25.5	9.0	18.0	22.5	15.0/22.5	0.8	200	800	—	—	—	—	—	250MMB275□**
	3.3	25.5	10.5	19.0	22.5	15.0/22.5	0.8	200	800	—	—	—	—	—	250MMB335□**
	3.9	25.5	11.0	20.0	22.5	15.0/22.5	0.8	100	500	—	—	—	—	—	250MMB395□**
	4.7	25.5	12.5	21.5	22.5	15.0/22.5	0.8	100	500	—	—	—	—	—	250MMB475□**
	5.6	31.0	11.0	22.0	27.5	27.5	0.8	100	500	—	—	—	—	—	250MMB565□**
	6.8	31.0	12.5	23.5	27.5	27.5	0.8	100	400	—	—	—	—	—	250MMB685□**
	8.2	31.0	14.0	25.5	27.5	27.5	0.8	50	400	—	—	—	—	—	250MMB825□**
	10	31.0	16.5	28.0	27.5	27.5	0.8	50	300	—	—	—	—	—	250MMB106□**

◆STANDARD SIZE

□ : Capacitance Tolerance **: Lead Forming

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	0.01	The item of this range, please select out of MMB(630Vdc) series.													
	0.012														
	0.015														
	0.018														
	0.022														
	0.027														
	0.033														
	0.039	13.0	5.0	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	400MMB393□**
	0.047	13.0	5.0	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	400MMB473□**
	0.056	13.0	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	400MMB563□**
	0.068	13.0	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,000	500	—	500	400MMB683□**
	0.082	13.0	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	400MMB823□**
	0.1	13.0	6.5	10.0	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	5.0/7.5/10.0/15.0	0.6	200	4,000	—	—	500	500	—	400MMB124□**
	0.15	18.0	6.0	9.0	15.0	5.0/7.5/10.0/15.0	0.6	200	4,000	—	—	500	500	—	400MMB154□**
	0.18	18.0	6.5	9.5	15.0	5.0/7.5/10.0/15.0	0.6	200	3,000	—	—	500	500	—	400MMB184□**
	0.22	18.0	6.0	13.0	15.0	5.0/7.5/10.0/15.0	0.6	100	3,000	—	—	500	500	—	400MMB224□**
	0.27	18.0	6.5	13.0	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	500	—	400MMB274□**
	0.33	18.0	6.5	13.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	400MMB334□**
	0.39	18.0	7.0	14.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	400MMB394□**
	0.47	18.0	7.5	16.0	15.0	5.0/7.5/10.0/15.0	0.8	100	1,000	—	—	500	400	—	400MMB474□**
	0.56	25.5	6.0	15.0	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	400MMB564□**
	0.68	25.5	7.0	15.5	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	400MMB684□**
	0.82	25.5	7.0	16.5	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	400MMB824□**
	1	25.5	8.0	19.0	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	400MMB105□**
	1.2	25.5	8.5	18.5	22.5	15.0/22.5	0.8	200	800	—	—	—	—	—	400MMB125□**
	1.5	31.0	8.5	19.0	27.5	27.5	0.8	200	800	—	—	—	—	—	400MMB155□**
	1.8	31.0	9.0	20.0	27.5	27.5	0.8	100	500	—	—	—	—	—	400MMB185□**
	2.2	31.0	11.0	21.5	27.5	27.5	0.8	100	500	—	—	—	—	—	400MMB225□**
	2.7	31.0	12.0	22.0	27.5	27.5	0.8	100	500	—	—	—	—	—	400MMB275□**
	3.3	31.0	13.0	24.0	27.5	27.5	0.8	50	400	—	—	—	—	—	400MMB335□**
	3.9	31.0	14.5	25.0	27.5	27.5	0.8	50	400	—	—	—	—	—	400MMB395□**
	4.7	31.0	16.0	27.0	27.5	27.5	0.8	50	300	—	—	—	—	—	400MMB475□**
630 Vdc	0.01	13.0	5.0	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	630MMB103□**
	0.012	13.0	5.5	8.0	10.0	5.0/7.5/10.0	0.6	200	6,000	—	1,500	500	—	500	630MMB123□**
	0.015	13.0	5.5	8.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB153□**
	0.018	13.0	5.5	10.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB183□**
	0.022	13.0	5.5	10.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB223□**
	0.027	13.0	5.5	10.5	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB273□**
	0.033	13.0	6.0	11.0	10.0	5.0/7.5/10.0	0.6	200	5,000	—	1,000	500	—	500	630MMB333□**
	0.039	13.0	6.0	13.0	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	630MMB393□**
	0.047	13.0	7.0	13.5	10.0	5.0/7.5/10.0	0.6	200	4,000	—	1,000	500	—	500	630MMB473□**
	0.056	18.0	5.5	10.5	15.0	5.0/7.5/10.0/15.0	0.6	200	4,000	—	—	500	500	—	630MMB563□**
	0.068	18.0	6.5	11.5	15.0	5.0/7.5/10.0/15.0	0.6	200	3,000	—	—	500	500	—	630MMB683□**
	0.082	18.0	6.0	11.5	15.0	5.0/7.5/10.0/15.0	0.6	100	3,000	—	—	500	500	—	630MMB823□**
	0.1	18.5	6.5	13.5	15.0	5.0/7.5/10.0/15.0	0.6	100	3,000	—	—	500	500	—	630MMB104□**
	0.12	18.5	6.5	13.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	500	—	630MMB124□**
	0.15	18.5	7.0	14.5	15.0	5.0/7.5/10.0/15.0	0.8	100	2,000	—	—	500	400	—	630MMB154□**
	0.18	18.5	7.5	15.0	15.0	5.0/7.5/10.0/15.0	0.8	100	1,000	—	—	400	400	—	630MMB184□**
	0.22	18.5	8.5	16.0	15.0	5.0/7.5/10.0/15.0	0.8	200	1,000	—	—	400	300	—	630MMB224□**
	0.27	25.5	7.0	14.5	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	630MMB274□**
	0.33	25.5	8.0	15.5	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	630MMB334□**
	0.39	25.5	9.0	17.0	22.5	15.0/22.5	0.8	200	1,000	—	—	—	—	—	630MMB394□**
	0.47	25.5	9.0	18.0	22.5	15.0/22.5	0.8	200	800	—	—	—	—	—	630MMB474□**
	0.56	25.5	9.0	20.0	22.5	15.0/22.5	0.8	200	800	—	—	—	—	—	630MMB564□**
	0.68	25.5	10.5	21.0	22.5	15.0/22.5	0.8	100	500	—	—	—	—	—	630MMB684□**
	0.82	31.0	10.0	20.5	27.5	27.5	0.8	100	500	—	—	—	—	—	630MMB824□**
	1	31.0	11.5	22.5	27.5	27.5	0.8	100	500	—	—	—	—	—	630MMB105□**
	1.2	31.0	12.5	23.0	27.5	27.5	0.8	100	400	—	—	—	—	—	630MMB125□**
	1.5	31.0	14.0	25.5	27.5	27.5	0.8	50	400	—	—	—	—	—	630MMB155□**
	1.8	31.0	15.5	26.0	27.5	27.5	0.8	50	300	—	—	—	—	—	630MMB185□**
	2.2	31.0	17.0	28.0	27.5	27.5	0.8	50	300	—	—	—	—	—	630MMB225□**