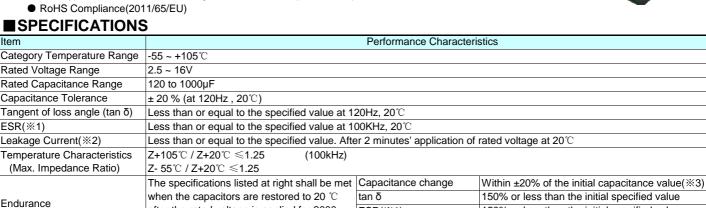
Chip type, Low ESR, Higher Capacitance Series

- Low ESR, Higher Capacitance, High ripple current.
- Load life of 2000 hours at 105℃.
- SMD type:Lead free reflow soldering condition at 260 ^oC peak correspondence.

after the rated voltage is applied for 2000



ESR(%1)

Leakage current(%2)

	hours at 105 ℃	Leakage current(※2)
	The specifications listed at right shall be met	Capacitance change
Damp Heat (Steady State)	when the capacitors are restored to 20 $^\circ\mathrm{C}$	tan δ
Damp Heat (Steady State)	after the rated voltage is applied for 1000	ESR(%1)
	hours at 60 $^{\circ}$ C, 90% RH.	Leakage current(%2)
	After soldering the capacitor shall meet the	Capacitance change
	specifcations listed at right.	tan δ
	Pre-heating shall be done at 150 to 200 $^{\circ}\mathrm{C}$	ESR(%1)
	and for 60 to 180 sec.	Leakage current(%2)
	The duration for over +230 ℃ at capacitor	
Resistance to	surface shall not exceed 60 seconds.	
Resistance to	In case peak terperature is 250 ℃ or less,	

Leakage current(※2)	less than or equal to the initial specified value
Capacitance change	Within ±10% of the initial capacitance value(%3)
tan δ	130% or less than the initial specified value
ESR(※1)	130% or less than the initial specified value
Leakage current(%2)	less than or equal to the initial specified value

150% or less than the initial specified value

150% or less than the initial specified value

150% or less than the initial specified value

less than or equal to the initial specified value

Within ±20% of the initial capacitance value(%3)

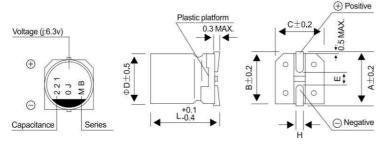
Soldering Heat reflow soldering shall be two times In case peak termperature is 260 °C or less, reflow soldering shall be once. Meraurement for solder temperature profiles

shall be made at the capacitor top and the Red print on the case top *1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform

3 Initial value: The value before test of examination of resistance to soldering.

*2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minuters at 105 °C

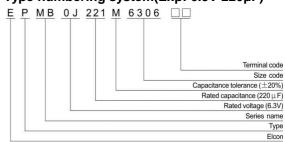
Dimensions



ΦxL(mm)

Size	5x5.8	6.3x5.8	6.3x7.7	8x6.7	8x7.7
ΦD	5.0	6.3	6.3	8.0	8.0
L	5.7	5.7	7.6	6.6	7.6
Α	6.0	7.3	7.3	9.0	9.0
В	5.3	6.6	6.6	8.3	8.3
С	5.3	6.6	6.6	8.3	8.3
Е	1.6	2.1	2.1	3.2	3.2
Н	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

Type numbering system(Exp: 6.3V 220µF)



1	V	0	Ita	g	е

v Ullaye	-					
V	2.5	4	6.3	10	16	
Code	0E	0G	0J	1A	1C	

MB Series

■STANDARD RATINGS

Rated voltage (V)(code)	Surge Voltage (V)	Rated Cpacitance (µF)	Case Size ФD x L(mm)	tan δ	Leakage Current (µA)	ESR(mΩ) (at 100kHz 20℃)	Rated Ripple (mArms)	Part Number
		330	5x5.8	0.12	700	10	3900	EPMB0E331M0558TR
		390	5x5.8	0.12	700	10	3900	EPMB0E391M0558TR
		390	6.3x5.8	0.12	292	10	3900	EPMB0E391M6358TR
2.5		470	6.3x7.7	0.12	352	9	4200	EPMB0E471M6377TR
2.5 (0E)	2.8	560	6.3x5.8	0.12	700	10	3900	EPMB0E561M6358TR
(OL)		560	6.3x7.7	0.12	420	9	4200	EPMB0E561M0667TR
		560	6.3x6.7	0.12	420	10	4500	EPMB0E561M0667TR
		680	6.3x6.7	0.12	510	10	4500	EPMB0E681M0667TR
		1000	8x7.7	0.12	750	9	4500	EPMB0E102M0877TR
		330	6.3x5.8	0.12	396	10	3900	EPMB0G331M6358TR
		390	6.3x7.7	0.12	468	9	4200	EPMB0G391M6377TR
	4.6	470	6.3x6.7	0.12	564	10	4500	EPMB0G471M0667TR
		560	6.3x6.7	0.12	672	10	4500	EPMB0G561M0667TR
		680	8x7.7	0.12	816	9	4500	EPMB0G681M0877TR
		150	5x5.8	0.12	700	12	3500	EPMB0J151M0558TR
4		220	5x5.8	0.12	700	12	3500	EPMB0J221M0558TR
(0G)		220	6.3x5.8	0.12	415	10	3900	EPMB0J221M6358TR
(00)		270	6.3x7.7	0.12	510	9	4200	EPMB0J271M6377TR
		330	6.3x5.8	0.12	700	10	3900	EPMB0J331M6358TR
		330	6.3x7.7	0.12	623	9	4200	EPMB0J331M6377TR
		330	6.3x6.7	0.12	623	10	4500	EPMB0J331M0667TR
		390	6.3x6.7	0.12	737	10	4500	EPMB0J391M0667TR
		470	8x7.7	0.12	888	9	4500	EPMB0J471M0877TR
		560	8x7.7	0.12	1050	9	4500	EPMB0J561M0877TR
10	11.5	120	5x5.8	0.12	240	22	2600	EPMB1A121M0558TR
(1A)	11.5	270	6.3x5.8	0.12	540	20	2800	EPMB1A271M6358TR
16		180	6.3x5.8	0.12	576	22	3300	EPMB1C181M6358TR
16 (1C)	18.4	270	8x6.7	0.12	864	22	3300	EPMB1C271M0867TR
(10)		330	8x7.7	0.12	1050	21	3400	EPMB1C331M0877TR