MX Chip type, long Life Assurance Series

- Load life of 20000 hours at 105°C.
- SMD type:Lead free reflow soldering condition at 260°C peak correspondence.
- RoHS Compliance(2011/65/EU)

■ SPECIFICATIONS

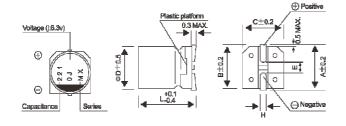


SPECIFICATIONS	•					
Item	Performance Characteristics					
Category Temperature Range	-55 ~ +105℃					
Rated Voltage Range	4~16V					
Rated Capacitance Range	22 to 560μF					
Capacitance Tolerance	± 20 % (at 120Hz , 20°C)					
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C					
ESR(%1)	Less than or equal to the specified value at 100KHz, 20°C					
Leakage Current(%2)	Less than or equal to the specified value. After	er 2 minutes' application	of rated voltage at 20℃			
Temperature Characteristics	Z+105°C / Z+20°C ≤1.25 (100kHz)					
(Max. Impedance Ratio)	Z- 55°C / Z+20°C ≤1.25					
	The specifications listed at right shall be met	Capacitance change	Within ±20% of the initial capacitance value(※3)			
Endurance	when the capacitors are restored to 20 $^{\circ}\mathrm{C}$	tan δ	150% or less than the initial specified value			
Endurance		ESR(%1)	150% or less than the initial specified value			
	hours at 105 ℃	Leakage current(%2)	less than or equal to the initial specified value			
	The specifications listed at right shall be met	Capacitance change	Within ±20% of the initial capacitance value(※3)			
Domp Hoot (Stoody State)	when the capacitors are restored to 20 °C	tan δ	150% or less than the initial specified value			
Damp Heat (Steady State)	after the rated voltage is applied for 1000	ESR(%1)	150% or less than the initial specified value			
	hours at 60 °C, 90% RH.	Leakage current(%2)	less than or equal to the initial specified value			
	specifcations listed at right.	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			
	and for 60 to 180 sec.	Leakage current(%2)	less than or equal to the initial specified value			
	The duration for over +230 ℃ at capacitor					
Posistanos to	surface shall not exceed 60 seconds.					
Resistance to Soldering Heat	In case peak terperature is 250 ℃ or less,					
	reflow soldering shall be two times					
	maximum.					
	In case peak termperature is 260 ℃ or less,					
	reflow soldering shall be once.					
	Meraurement for solder temperature profiles					
	shall be made at the capacitor top and the					
Marking	Red print on the case top	L				
×1 FSR should be measured	at both of the terminal ends closest where the	terminals protrude throu	oh the plastic platform			

^{*1} ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform.

X3 Initial value: The value before test of examination of resistance to soldering.

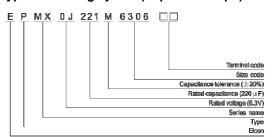
■ Dimensions



ΦxL(mm)

Size	5x6	6.3x6	8x7
ΦD	5.0	6.3	8.0
L	5.9	5.9	6.9
Α	6.0	7.3	9.0
В	5.3	6.6	8.3
С	5.3	6.6	8.3
Е	1.6	2.1	3.2
Н	0.5-0.8	0.5-0.8	0.8-1.1

Type numbering system(Exp: 6.3V 220µF)



voltage					
	V	4	6.3	10	16
	Code	0G	0J	1A	1C

^{%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 ℃

MX 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
4	4.6	150	5 x 6	0.12	120	25	2200	EPMS0G151M0506TR
		330	6.3 x 6	0.12	264	20	2800	EPMS0G331M6306TR
(0G)		330	8 x 7	0.12	264	22	3200	EPMS0G331M0807TR
		560	8 x 7	0.12	448	18	3600	EPMS0G561M0807TR
		47	5 x 6	0.12	100	35	1600	EPMS0J470M0506TR
		100	5 x 6	0.12	126	25	2400	EPMS0J101M0506TR
6.3		100	6.3 x 6	0.12	126	22	2800	EPMS0J101M6306TR
(OJ)	7.2	120	6.3 x6	0.12	151	22	2800	EPMS0J121M6306TR
		220	6.3 x6	0.12	277	20	2800	EPMS0J221M6306TR
		220	8 x 7	0.12	277	22	3200	EPMS0J221M0807TR
		390	8 x 7	0.12	491	22	3200	EPMS0J391M0807TR
10 (1A)	11.5	33	5x 6	0.12	100	40	1300	EPMS1A330M0506TR
		56	6.3 x 6	0.12	112	27	2300	EPMS1A560M6306TR
		68	5 x6	0.12	136	30	2100	EPMS1A680M0506TR
		120	6.3 x 6	0.12	240	27	2300	EPMS1A121M6306TR
		150	8x 7	0.12	300	30	2600	EPMS1A151M0807TR
		270	8x 7	0.12	540	22	3200	EPMS1A271M0807TR
	18.4	22	5 x 6	0.12	100	45	1100	EPMS1C220M0506TR
16 (1C)		39	5 x 6	0.12	125	35	2000	EPMS1C390M0506TR
		39	6.3 x 6	0.12	125	30	2200	EPMS1C390M6306TR
		68	6.3 x 6	0.12	218	30	2200	EPMS1C680M6306TR
		82	8x 7	0.12	262	28	2800	EPMS1C820M0807TR
		120	8x 7	0.12	384	28	2800	EPMS1C121M0807TR