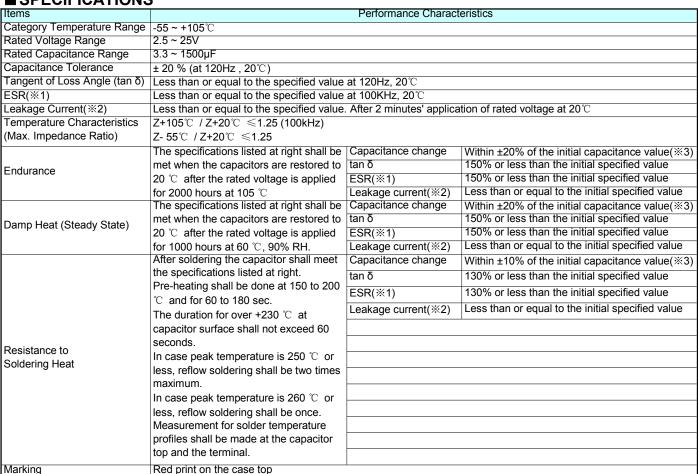
MA Chip type, Standard Series

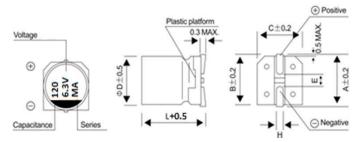
- Low ESR, High ripple current.
- Load life of 2000 hours at 105℃.
- SMD type:Lead free reflow soldering condition at 260 [°]C peak correspondence.
- RoHS Compliance(2011/65/EU)

■ SPECIFICATIONS



- *1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform
- %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 minutes at 105 ℃
- *3 Initial value: The value before test of examination of resistance to soldering.

Dimensions



Type numbering sys	stem(Exp: 6.3V 120µF)
E P MA 0J 121 M 63	06
	Terminal code
	Size code
	Capacitance tolerance (±20%)
	Rated capacitance (120 µ F)
	Rated voltage (6.3V)
	Series name
	Туре
1	Elcon

								Φ 2	k L(mm)
Size	4x5.5	5x6	6.3x5.5	6.3x6	8x7	8x12	10x8	10x10	10x12.7
ФD	4.0	5.0	6.3	6.3	8.0	8.0	10.0	10.0	10.0
L	5.5	6	5.5	6	7	12	8	10	12.7
Α	5.0	6.0	7.3	7.3	9.0	9.0	11.0	11.0	11.0
В	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
С	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	10.3
E	1.0	1.6	2.1	2.1	3.2	3.2	4.6	4.6	4.6
Н	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1	0.8-1.1	0.8-1.1	0.8-1.1

Voltage										
V	2.5	4	6.3	10	16	20	25			
Code	0E	0G	0J	1A	1C	1D	1E			



■ STANDARD RATINGS

Rated voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size ФD x L(mm)	tan δ	Leakage Current (µA)	ESR(mΩ) (at 100kHz 20℃)	Rated Ripple (mArms)	Part Number
, , ,		100	6.3 x 6	0.12	50	22	2600	EPMA0E101M6306TR
		220	6.3 x 5.5	0.12	110	20	2800	EPMA0E221M6355TR
		220	6.3 x 6	0.12	110	20	2800	EPMA0E221M6306TR
2.5	2.8	470	8 x 7	0.12	235	20	3300	EPMA0E471M0807TR
(0E)	2.0	820	10 x 8	0.12	410	17	4400	EPMA0E821M1008TR
		1500	10 x 10	0.12	750	13	4700	EPMA0E152M1010TR
		1500	10 x 12.7	0.12	750	12	5440	EPMA0E152M1012TR
		33	4 x 5.5	0.12	26.4	200	700	EPMA0G330M0455TR
		100	6.3 x 5.5	0.12	80	22	2600	EPMA0G101M6355TR
		100	6.3 x 6	0.12	80	22	2600	EPMA0G101M6306TR
		150	6.3 x 5.5	0.12	120	22	2800	EPMA0G151M6355TR
		150	5 x 6	0.12	300	30	2000	EPMA0G151M0506TR
		150	6.3 x 6	0.12	120	22	2800	EPMA0G151M6306TR
4	4.6	220	8 x 7	0.12	176	21	3200	EPMA0G221M0807TR
(0G)	4.0	330	8 x 7	0.12	264	21	3400	EPMA0G331M0807TR
		470	10 x 8	0.12	376	17	4200	EPMA0G331W0007TR
		560	8 x 12	0.12	448	13	4520	EPMA0G561M0812TR
		680	10 x 8	0.12	544	17	4400	EPMA0G681M1008TR
		820	10 x 0	0.12	656	13	4800	EPMA0G881M1000TR
		1200	10 x 10 10 x 12.7	0.12	960	10	5500	EPMA0G021W1010TR
		22		0.12	27.72	200	700	EPMA0G122W1012TR
		47	4 x 5.5 5 x 6	0.12	59.22	35	1600	EPMA0J470M0506TR
						23	2600	
		82	6.3 x 5.5	0.12	103			EPMA0J820M6355TR
		82 100	6.3 x 6 6.3 x 5.5	0.12 0.12	103 126	23 23	2600 2800	EPMA0J820M6306TR EPMA0J101M6355TR
		100	5 x 6	0.12	315	25	2200	EPMA0J101M0506TR
		100	6.3 x 6	0.12	126	23	2800	EPMA0J101M6306TR
6.3	- 0	120	6.3 x 6	0.12	151	23	3000	EPMA0J121M6306TR
(OJ)	7.2	150	8 x 7	0.12	189	22	3200	EPMA0J151M0807TR
` ′		220	8 x 7	0.12	277	22	3400	EPMA0J221M0807TR
		330	10 x 8	0.12	416	18	4200	EPMA0J331M1008TR
		470	8 x 12	0.12	592	12	5300	EPMA0J471M0812TR
		470	10 x 8	0.12	592	18	4300	EPMA0J471M1008TR
		470	10 x 10	0.12	592	16	4600	EPMA0J471M1010TR
		680	10 x 10	0.12	857	14	5000	EPMA0J681M1010TR
		680	10 x 12.7	0.12	857	10	5500	EPMA0J681M1012TR
		820	10 x 12.7	0.12	1033	10	5800	EPMA0J821M1012TR
		4.7	4 x 5.5	0.12	9.4	240	670	EPMA1A4R7M0455TR
		6.8	4 x 5.5	0.12	13.6	240	670	EPMA1A6R8M0455TR
		10	4 x 5.5	0.12	20	220	700	EPMA1A100M0455TR
		15	4 x 5.5	0.12	30	200	700	EPMA1A150M0455TR
		33	5 x 6	0.12	66	35	1500	EPMA1A330M0506TR
		47	5 x 6	0.12	94	26	2600	EPMA1A470M0506TR
		47	6.3 x 6	0.12	94	26	2600	EPMA1A470M6306TR
		56	6.3 x 5.5	0.12	112	25	2500	EPMA1A560M6355TR
10		56	6.3 x 6	0.12	112	25	2500	EPMA1A560M6306TR
(1A)	11.5	120	8 x 7	0.12	240	23	3000	EPMA1A121M0807TR
		150	8 x 7	0.12	300	23	3200	EPMA1A151M0807TR
		150	10 x 8	0.12	300	21	3300	EPMA1A151M1008TR
		270	8 x 12	0.12	540	13	4500	EPMA1A271M0812TR
		270	10 x 8	0.12	540	20	3600	EPMA1A271M1008TF
		330	8 x 12	0.12	660	14	4000	EPMA1A331M0812TR
		330	10 x 8	0.12	660	20	3700	EPMA1A331M1008TR
		470	10 x 10	0.12	940	16	4600	EPMA1A471M1010TR
		470	10 x 12.7	0.12	940	12	5300	EPMA1A471M1012TR
		560	10 x 10	0.12	1120	15	4800	EPMA1A561M1010TR



MA Series

■ STANDARD RATINGS

Rated voltage (V)(code)	Surge Voltage (V)	Rated Capacitance (µF)	Case Size ФD x L(mm)	tan δ	Leakage Current (µA)	ESR(mΩ) (at 100kHz 20℃)	Rated Ripple (mArms)	Part Number
10(1A)	11.5	560	10 x 12.7	0.12	1120	13	5230	EPMA1A561M1012TR
, ,		3.3	4 x 5.5	0.12	7.04	260	660	EPMA1C3R3M0455TR
		22	5 x 6	0.12	7.04	45	1210	EPMA1C220M0506TR
		33	6.3 x 6	0.12	106	31	2400	EPMA1C330M6306TR
		39	6.3 x 5.5	0.12	125	31	2400	EPMA1C390M6355TR
		39	6.3 x 6	0.12	125	31	2400	EPMA1C390M6306TR
		56	8 x 7	0.12	179	30	2900	EPMA1C560M0807TR
40		82	8 x 7	0.12	262	28	3200	EPMA1C820M0807TR
16	18.4	100	10 x 8	0.12	320	27	3300	EPMA1C101M1008TR
(1C)		150	6.3 x 6.5	0.12	480	30	2900	EPMA1C151M6365TR
		150	10 x 8	0.12	480	25	3500	EPMA1C151M1008TR
		180	8 x 12	0.12	576	16	4400	EPMA1C181M0812TR
		180	10 x 8	0.12	576	25	3600	EPMA1C181M1008TR
		220	10 x 10	0.12	704	20	3900	EPMA1C221M1010TR
		220	10 x 12.7	0.12	704	14	5050	EPMA1C221M1012TR
		330	10 x 12.7	0.12	1056	14	5000	EPMA1C331M1012TR
	23	10	4 x 5.5	0.12	40	120	900	EPMA1D100M0506TR
		22	6.3 x 5.5	0.12	88	50	1700	EPMA1D220M6355TR
		22	6.3 x 6	0.12	88	50	1700	EPMA1D220M6306TR
		39	8 x 7	0.12	156	45	2000	EPMA1D390M0807TR
		47	8 x 7	0.12	188	45	2000	EPMA1D470M0807TR
20		56	10 x 8	0.12	224	40	2400	EPMA1D560M1008TR
(1D)		68	10 x 8	0.12	272	40	2600	EPMA1D680M1008TR
		82	10 x 8	0.12	328	40	2600	EPMA1D820M1008TR
		100	8 x 12	0.12	400	22	3200	EPMA1D101M0812TR
		120	10 x 10	0.12	480	35	2800	EPMA1D121M1010TR
		150	10 x 12.7	0.12	600	20	4320	EPMA1D151M1012TR
	28.7	6.8	6.3 x 6	0.12	34	80	1200	EPMA1E6R8M6306TR
		10	8 x 7	0.12	50	60	1600	EPMA1E100M0807TR
		22	10 x 8	0.12	110	50	2200	EPMA1E220M1008TR
25		33	8 x 12	0.12	165	30	2800	EPMA1E330M0812TR
(1E)		47	8 x 12	0.12	235	30	3000	EPMA1E470M0812TR
` ′		47	10 x 10	0.12	235	45	2400	EPMA1E470M1010TR
		56	10 x 12.7	0.12	280	28	3800	EPMA1E560M1012TR
		100	8 x 7	0.12	500	25	3000	EPMA1E101M0807TR