



CAJA SERIES: Surface Mount | SMD E-CAP ,105°C, Long Life



FEATURES

- ◆ 105°C, 3000 hours assured.
- ◆ RoHS Compliant

SPECIFICATIONS

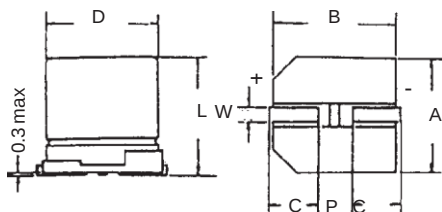
Item	Performance									
Operating Temp. Range	-40°C ~ + 105°C									
Capacitance Tolerance	± 20% (120Hz, 20°C)									
Leakage Current (at 20•C)	I=0.01CV or 3μA (whichever is greater) after 2 minutes, where C=rated capacitance in μF and V= rated working voltage									
Dissipation Factor	Rated Voltage	6.3	10	16	25	35	50			
Tanδ at 120 Hz, 20°C	Tanδ (max)	0.30	0.26	0.20	0.16	0.13	0.12			
Low Temperature Characteristics (at 120Hz)	Rated Voltage			6.3	10	16	25	35	50	
	Impedance Ratio Maximum	Z(-25°C) /Z(+20°C)		4	3	2	2	2	2	
		Z(-40°C) /Z(+20°C)		10	7	5	3	3	3	
Life Test	Test Time		Load Life					Shelf Life		
			3000 Hrs			1000 Hrs				
	Capacitance Change		Within ±30% of initial value					Within ± 20% of initial value		
	Dissipation Factor		Less than 200% of specified value					Less than 200% of specified value		
	Leakage Current		Within specified value					Within specified value		
	Test Conditions		20°C (after rated voltage applied for 3000 hours at 105°C					20° C (after storage for 1000 hours at 105°C without voltage)		
Ripple Current & Frequency Multilpiers	VDC(V)	Freq. (Hz)	50	120	1K	10K up				
	6.3 ~ 50		0.70	1.00	1.36	1.50				
Standards	JIS C 5101-1-18									

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φD x L (mm)

Ripple Current mA/rms at 120 Hz, 105°C

VDC		6.3 (0J)		10 (1A)		16 (1C)		25V (1E)		35V (1V)		50V (1H)	
μF	Contents	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA	φD x L	mA
0.1	104											4 x 5.7	1
0.22	224											4 x 5.7	2.6
0.33	334											4 x 5.7	3.2
0.47	474											4 x 5.7	5
1	105											4 x 5.7	8
2.2	225											4 x 5.7	12
3.3	335											4 x 5.7	17
4.7	475									4 x 5.7	16	5 x 5.7	22
10	106					4 x 5.7	18	5 x 5.7	27	5 x 5.7	27	6.3 x 5.7	32
22	226	4 x 5.7	22	5 x 5.7	30	5 x 5.7	30	6.3 x 5.7	44	6.3 x 5.7	44	6.3 x 7.7	58
33	336	5 x 5.7	35	5 x 5.7	35	6.3 x 5.7	48	6.3 x 5.7	50	6.3 x 7.7	57	8 x 10	140
47	476	5 x 5.7	38	6.3 x 5.7	50	6.3 x 5.7	50	6.3 x 7.7	63	8 x 10	92	8 x 10	170
100	107	6.3 x 5.7	69	6.3 x 7.7	81	6.3 x 7.7	81	8 x 10	116	10 x 10	151	10 x 10	310
220	227	6.3 x 7.7	120	8 x 10	141	10 x 10	216	10 x 10	320	10 x 10	375		
330	337	8 x 10	290	10 x 10	290	10 x 10	290	10 x 10	450				
470	477	10 x 10	320	10 x 10	320	10 x 10	320						
1000	108	10 x 10	410										



PAD SPACING AND DIAMETER

φD±0.5	L	A±0.2	B±0.2	C±0.2	W	P±0.2
4	5.7±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.7±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

PART NUMBER EXAMPLE

CAJA 106 M 1E T 050057