


CAMA SERIES: Surface Mount | SMD E-CAP High Temperature, 125°C
**FEATURES**

- ◆ High Temperature Range up to +125°C
- ◆ For automobile modules and other high temperature applications
- ◆ RoHS Compliant

SPECIFICATIONS

Items	Performance												
Operating Temperature Range	10 ~ 50V -40 °C ~ +125 °C												
Capacitance Tolerance	±20%												
Leakage Current (at 20 °C)	I = 0.03CV or 4 (μA) whichever is greater (after 1 minute) Where C = rated capacitance in μF. V = rated DC working voltage in V.												
Dissipation Factor (Tan δ at 120Hz, 20 °C)	Rated Voltage	10	16	25	35	50							
	Tan δ (max)	0.32	0.24	0.21	0.18	0.18							
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.												
	Rated Voltage			10	16	25	35						
	Impedance Ratio	Z (-40 °C)/Z(+20 °C)			5	4	3						
Load Life Test	Test Time	1,000 Hrs											
	Capacitance Change	Within ±30% of initial value											
	Dissipation Factor	Less than 300% of specified value											
	Leakage Current	Within specified value											
	* The above specifications shall be satisfied when the capacitors are restored to 20 °C after the rated voltage applied for 1,000 hrs at 125 °C												
Shelf Life Test	Test Time: 1,000 hrs; other items are the same as those for the load life test.												
Other Standards	JIS C 5101-1, -18												

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φD x L(mm)

Ripple Current mA/rms at 120KHz, 125°C

μF	V.DC Contents	10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		D x L	mA								
33	336			6.3 x 5.7	50	6.3 x 5.7	50	6.3 x 7.7	70	8 x 10	130
47	476			6.3 x 5.7	70	6.3 x 7.7	70	8 x 6.5	75	8 x 10	130
100	107	8.0 x 6.5	78	8 x 6.5	75	8 x 10	134	10 x 10	182	12.5 x 13.5	357
220	227	8.0 x 10	131	10 x 10	181	10 x 10	181	12.5 x 13.5	357	12.5 x 16	401
330	337	8.0 x 10	131	12.5 x 13.5	480	12.5 x 13.5	480	16 x 16.5	650	16 x 16.5	652
470	477	12.5 x 13.5	480	12.5 x 13.5	480	12.5 x 13.5	480	16 x 16.5	650		
680	687	12.5 x 13.5	480	12.5 x 13.5	480	12.5 x 16	585	16 x 16.5	650		
1,000	108	12.5 x 16	585	12.5 x 16	589	16 x 16.5	650	18 x 16.5	855		

Fig. 1

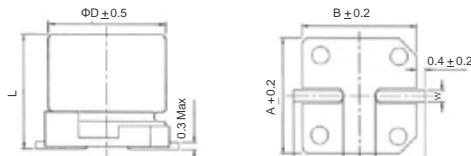
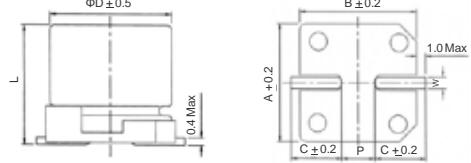


Fig. 2

**PAD SPACING AND DIAMETER**

ΦD	L	A	B	C	W	P ± 0.2	Fig. No.
8	10.0 ± 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	1
10	10.0 ± 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	1
12.5	13.0 ± 0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
12.5	16.0 ± 0.5	12.8	12.8	4.9	1.1 to 1.4	4.2	2
16	16.5 ± 0.5	16.3	16.3	5.8	1.1 to 1.4	6.0	2

PART NUMBER EXAMPLE

CAMA 227 M 1A T 080 100