



CAKA SERIES: Surface Mount | SMD E-CAP



FEATURES

- ◆ 105°C, 1000 hours assured.
- ◆ Vertical chip type miniaturized for 5.5mm.
- ◆ RoHS Compliant

SPECIFICATIONS

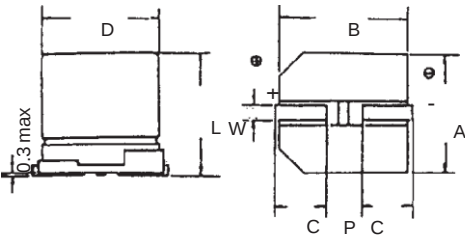
Item	Performance									
Operating Temp. Range	-55°C ~ + 105°C									
Capacitance Tolerance	± 20% (120Hz, 20°C)									
Leakage Current (at 20•C)	I=0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where C=rated capacitance in μ F and V= rated working voltage									
Dissipation Factor	Rated Voltage	6.3	10	16	25	35	50			
Tanδ at 120 Hz, 20°C	Tanδ (max)	0.30	0.26	0.22	0.16	0.13	0.12			
Low Temperature	Rated Voltage			6.3	10	16	25	35	50	
Characteristics (at 120Hz)	Impedance Ratio Maximum	Z(-25°C) /Z(+20°C)		4	3	2	2	2	2	
		Z(-40°C) /Z(+20°C)		8	5	4	3	3	3	
Life Test	Test Time		Load Life					Shelf Life		
			1000 Hrs					1000 Hrs		
	Capacitance Change		Within ±20% 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 1000 hours at 105°C					20° C (after storage for 1000 hours at 105°C without voltage)		
Ripple Current & Frequency Multipliers	VDC(V)	Freq. (Hz)	50	120	1K	10K up				
	Under 16		0.80	1.00	1.15	1.25				
	25 ~ 35		0.80	1.00	1.25	1.40				
	50		0.80	1.00	1.35	1.50				
Standards	JIS C 5101-1-18									

DIMENSION & PERMISSIBLE RIPPLE CURRENT

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

VDC		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (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 5.3	2
0.22	224											4 x 5.3	3
0.33	334											4 x 5.3	4
0.47	474											4 x 5.3	5
1	105											4 x 5.3	7
2.2	225											4 x 5.3	10
3.3	335											4 x 5.3	12
4.7	475							4 x 5.3	12	4 x 5.3	14	5 x 5.3	17
10	106			4 x 5.3	15	4 x 5.3	16	5 x 5.3	21	5 x 5.3	23	6.3 x 5.3	26
22	226	4 x 5.3	21	5 x 5.3	25	5 x 5.3	28	6.3 x 5.3	36	6.3 x 5.3	50		
33	336	5 x 5.3	30	5 x 5.3	31	6.3 x 5.3	40	6.3 x 5.3	44				
47	476	5 x 5.3	36	6.3 x 5.3	43	6.3 x 5.3	47	6.3 x 5.3	60				
100	107	6.3 x 5.3	61	6.3 x 5.3	65	6.3 x 5.3	70						

PAD SPACING AND DIAMETER



φD±0.5	L	A±0.2	B±0.2	C±0.2	W	P±0.2
4	5.3±0.2	4.3	4.3	2.0	0.5 to 0.8	1.0
5	5.3±0.2	5.3	5.3	2.3	0.5 to 0.8	1.5
6.3	5.3±0.2	6.6	6.6	2.7	0.5 to 0.8	2.0

PART NUMBER EXAMPLE

CAKA 106M 1E T 050053