



CAHZ SERIES: Surface Mount | SMD E-CAP Low Leakage



FEATURES

- ◆ Vertical chip type miniaturized for 5.5mm, high capacitors
- ◆ Low leakage current
- ◆ RoHS compliant

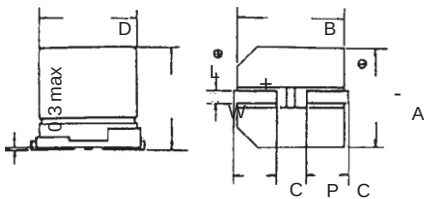
SPECIFICATIONS

Item	Performance									
Operating Temp. Range	-40°C ~ + 85°C									
Capacitance Tolerance	± 20% (120Hz, 20°C)									
Leakage Current (at 20°C)	I=0.002CV or 0.5μA (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)	0.28	0.24	0.20	0.14	0.12	0.10			
Low Temperature Characteristics (at 120Hz)	Rated Voltage			6.3	10	16	25	35	50	
	Impedance Ratio Maximum	Z(-25°C) /Z(+20°C)		3	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		
			2000 Hrs					2000 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 2000 hours at 85°C					20° C (after storage for 2000 hours at 85°C without voltage)		
Ripple Current & Frequency Multipliers	VDC(V)	Freq. (Hz)	50	120	1K	10K up				
	Under 16		0.8	1.00	1.15	1.25				
	25 ~ 35		0.8	1.00	1.25	1.40				
	50		0.8	1.00	1.35	1.50				
Standards	JIS C 5101-1,-18									

DIMENSION & PERMISSIBLE RIPPLE CURRENT

Dimension: φ D x L(mm)
Ripple Current mA/rms at 120 Hz, 85°C

VDC		6.3V (0J)		10V (1A)		16V (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 5.3	3
0.22	224											4 x 5.3	5
0.33	334											4 x 5.3	6
0.47	474											4 x 5.3	7
1	105											4 x 5.3	10
2.2	225											4 x 5.3	15
3.3	335											4 x 5.3	19
4.7	475							4 x 5.3	19	4 x 5.3	20	5 x 5.3	26
10	106			4 x 5.3	23	4 x 5.3	26	5 x 5.3	32	5 x 5.3	34	6.3 x 7.7	44
22	226	4 x 5.3	31	5 x 5.3	39	5 x 5.3	44	6.3 x 5.3	55	6.3 x 5.3	59		
33	336	5 x 5.3	44	5 x 5.3	48	6.3 x 5.3	63	6.3 x 5.3	67				
47	476	5 x 5.3	52	6.3 x 5.3	67	6.3 x 5.3	75						
100	107	6.3 x 5.3	89	6.3 x 5.3	98								



PAD SPACING AND DIAMETER

φD	L	A	B	C	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

CAHZ 106 M 1V T_050053