

**CAHB SERIES:** Surface Mount | SMD E-CAP Low ESR (Impedance)**FEATURES**

- ◆ 105°C, 1000 hours assured
- ◆ Low Impedance
- ◆ Smaller size than CAHA
- ◆ RoHS Compliant

SPECIFICATIONS

Items	Performance									
Operating Temperature Range	-55℃~+105℃									
Capacitance Tolerance	+20% (at 120Hz, 20℃)									
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C= rated capacitance in μF. V= rated DC working voltage in V.									
Dissipation Factor (Tanδ at 120Hz, 20℃)	Rated Voltage	6.3	10	16	25	35	50			
	Tanδ (max)	0.28	0.24	0.2	0.16	0.14	0.12			
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.									
	Rated Voltage				6.3	10	16	25	50	
	Impedance Ratio	Z (-25℃)/Z(+20℃)				4	3	2	2	2
		Z(-40℃)/Z(+20℃)				8	5	4	3	3
Load Life Test	Test Time		1,000 Hrs							
	Capacitance Change		Within +25% of initial value							
	Dissipation Factor		Less than 200% of specified value							
	Leakage Current		Within specified value							
	* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 1,000 hrs at 105℃									
Shelf Life Test	Test Time: 1000 hrs; other items are the same as those for the load lifetest.									
Ripple Current & Frequency Multipliers	Freq. (Hz)	50,60	120	1k	10k up					
	VDC(V)	0.64	0.8	0.93	1.0					
Standards	JIS C 5101-1									

DIMENSION, IMPEDANCE & PERMISSIBLE RIPPLE CURRENT

Dimension: φD × L(mm)

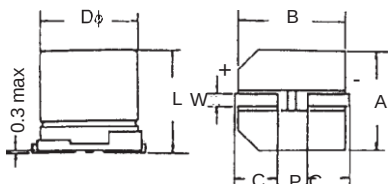
Ripple Current mA/rms at 100KHz, 105°C

Impedance: at 100KHz, 20°C

V.DC		6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
μF	Contents	φD × L	mA	Imp.	φD × L	mA	Imp.	φD × L	mA	Imp.	φD × L	mA	Imp.	φD × L	mA	Imp.	φD × L	mA	Imp.
1.0	105																4 × 5.3	30	5.0
2.2	225																4 × 5.3	30	5.0
3.3	335																4 × 5.3	30	5.0
4.7	475										4 × 5.3	65	3.20	4 × 5.3	65	3.20	5 × 5.3	50	3.0
10	106				4 × 5.3	65	3.20	4 × 5.3	65	3.20	5 × 5.3	110	1.50	5 × 5.3	110	1.50	6.3 × 5.3	70	2.0
22	226	4 × 5.3	65	3.20	5 × 5.3	110	1.50	5 × 5.3	110	1.50	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 5.3	70	2.0
33	336	5 × 5.3	110	1.50	5 × 5.3	110	1.50	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 7.7	170	1.0
47	476	5 × 5.3	110	1.50	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 7.7	255	0.50			
100	107	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 5.3	170	0.85	6.3 × 7.7	255	0.50						
150	157	6.3 × 7.7	255	0.50	6.3 × 7.7	255	0.50	6.3 × 7.7	255	0.50									
220	227	6.3 × 7.7	255	0.50	6.3 × 7.7	255	0.50	6.3 × 7.7	255	0.50									

PART NUMBER EXAMPLE

CAHB 226M 1A T 050053

**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
6.3	7.7 + 0.3	6.6	6.6	2.7	0.5 to 0.8	2.0