

CAGB SERIES: Surface Mount | SMD E-CAP , Extended Range



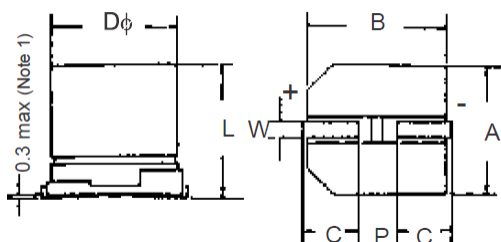
FEATURES

- ◆ 85°C, 2000 hours assured.
- ◆ RoHS Compliant
- ◆ Voltages up to 450Vdc.

SPECIFICATIONS

Item	Performance														
Operating Temp. Range	-40°C ~ + 85°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 F V=rated DC working Volts														
Dissipation Factor Tanδ at 120 Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63	100	160 ~ 250	400 ~ 450				
	4 ~ 10φ	0.35	0.30	0.26	0.16	0.14	0.12	0.12	0.12	-	-				
	12.5 ~ 16φ	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10	0.20	0.25				
Low Temperature Characteristics (at 120Hz)	Rated Voltage				6.3	10	16	25	35	50	63	100	160-250	400-450	
	Impedance Ratio	Z(-25°C) /Z(+20°C)		4 ~ 10	4	4	3	2	2	2	2	3	-	-	
		12.5 ~ 16		-	5	4	2	3	2	2	2	3	6		
		Z(-40°C) /Z(+20°C)		D<10	17	10	8	4	3	3	3	4	-	-	
Life Test	Test Time		Load Life							Shelf Life					
			2000 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 2000 hours at 85°C							20° C (after storage for 1000 hours at 85°C without voltage)					
Ripple Current & Frequency Multipliers	VDC(V)\ Freq. (Hz)	50,60	120	1K	10K up										
	6.3 ~ 35	0.64	0.8	0.93	1.0										
Standards	JLS C 5101-1, -18														

PAD SPACING AND DIAMETER



Note 1-Diameters of 12.5mm & 16mm diameter is 0.4mm Max

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
8	10±0.3	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10±0.3	10.4	10.4	3.3	0.7 to 1.1	4.7
12.5	1.3±0.3	12.8	12.8	4.9	1.1 to 1.4	4.6
12.5	16±0.3	12.8	12.8	4.9	1.1 to 1.4	4.6
16	16.5±0.3	16.3	16.3	5.8	1.8 to 2.2	6.0



CAGB SERIES: Surface Mount | SMD E-CAP Extended Range

DIMENSION & PERMISSIBLE RIPPLE CURRENT

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

μF	VDC Code	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		
		φ D x L	mA	φ D x L	mA	φ D x L	mA	φ D x L	mA	φ D x L	mA	φ D 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	15	
4.7	475							4 x 5.3	19		4 x 5.3	18	4 x 5.3	18
10	106			4 x 5.3	26	4 x 5.3	26	4 x 5.3	24	4 x 5.3	24	5 x 5.3	30	
22	226	4 x 5.3	30	4 x 5.3	26	4 x 5.3	26	5 x 5.3	41	5 x 5.3	41	6.3 x 5.3	47	
33	336	4 x 5.3	30	5 x 5.3	30	5 x 5.3	37	5 x 5.3	47	6.3 x 5.3	54	6.3 x 7.7	70	
47	476	4 x 5.3	33	5 x 5.3	44	5 x 5.3	44	6.3 x 5.3	60	6.3 x 5.3	64	6.3 x 7.7	85	
100	107	5 x 5.3	55	6.3 x 5.3	70	6.3 x 5.3	70	6.3 x 7.7	120	6.3 x 7.7	120	8 x 10	190	
220	227	6.3 x 5.3	88	6.3 x 7.7	130	6.3 x 7.7	130	8 x 10	260	8 x 10	260	10 x 10	320	
330	337	6.3 x 7.7	135	8 x 10	270	8 x 10	270	8 x 10	300	10 x 10	360	12.5 x 13.5	600	
470	477	8 x 10	280	8 x 10	280	8 x 10	280	10 x 10	400	12.5 x 13.5	600	12.5 x 16	740	
1000	108	8 x 10	430	10 x 10	430	12.5 x 13.5	710	12.5 x 13.5	820	16 x 16.5	1100			
2200	228	12.5 x 13.5	890	12.5 x 13.5	960	16 x 16.5	1150	16 x 16.5	1450					
3300	338	12.5 x 16	1000	16 x 16.5	1300	16 x 16.5	1150							
4700	478	16 x 16.5	1400	16 x 16.5	1300									
6800	688	16 x 16.5	1700											

μF	VDC	63V (1J)		100V (2A)		160V (2C)		200V (2D)		250V (2E)		400V (2GH)	
	Code	φ D x L	mA	φ D x L	mA	φ D x L	mA	φ D x L	mA	φ D x L	mA	φ D x L	mA
0.1	104	4 x 5.3	1.3										
0.22	224	4 x 5.3	30										
0.33	334	4 x 5.3	4										
0.47	474	4 x 5.3	5										
1	105	4 x 5.3	8										
2.2	225	4 x 5.3	12										
3.3	335	5 x 5.3	17										
4.7	475	5 x 5.3	20									12.5 x 13.5	120
10	106	6.3 x 5.3	32	8 x 10	90					12.5 x 13.5	150	12.5 x 13.5	120
22	226	6.3 x 7.7	60	8 x 10	90			12.5 x 13.5	240	12.5 x 13.5	150	16 x 16.5	140
33	336	6.3 x 7.7	60	10 x 10	120	12.5 x 13.5	240	12.5 x 16	310	12.5 x 16	240	16 x 16.5	340
47	477	8 x 10	130	10 x 10	120	12.5 x 16	370	16 x 16.5	340	16 x 16.5	340		
68	686	10 x 10	170	12.5 x 13.5	380	16 x 16.5	500	16 x 16.5	340				
100	107	12.5 x 13.5	380	12.5 x 13.5	380								
220	227	12.5 x 13.5	580	16 x 16.5	500								
330	337	12.5 x 16	720										
470	477	16 x 16.5	950										

μF	VDC	450V (2W)	
	Code	φ D x L	mA
4.7	4R7	12.5 x 13.5	120
10	100	12.5 x 16	130
22	220	16 x 16.5	140

RATED VOLTAGE

W/V	6.3	10	16	25	35	50
Code	0J	1A	1C	1E	1V	1H
W/V	63	100	160	200	250	400
Code	1J	2A	2C	2D	2E	2GH

PART NUMBER EXAMPLE

CAGB 226 M 1A T 040 053

Length
Diameter
Package Style
Voltage
Tolerance
Capacitance Code
Series

SIZE CODE EXAMPLE

Type	Diameter	Length	Diameter	Length
Size	4.0	5.3	12.7	13.5
Code	040	053	127	135

TOLERANCE CODE

Code	Tolerance
J	± 5%
K	± 10%
M	± 20%