

CAE-M SURFACE MOUNT TYPE ULTRA MINI VERSION, 3MM IN DIAMETER

CAE-S SURFACE MOUNT TYPE STANDARDS

FEATURES

☐ SOLVENT PROOF (WITHIN 2 MINUTES).

SPECIFICATIONS

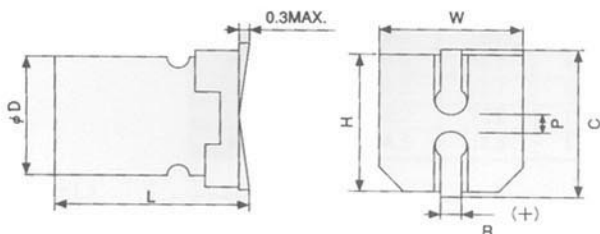
RoHS
Compliant



ITEMS		SPECIFICATIONS											
RATED VOLTAGE (V)		4	6.3	10	16	25	35	50	63	100			
OPERATING TEMPERATURE RANGE (°C)		-40 to +85											
CAPACITANCE TOLERANCE (%)		±20 (120Hz)											
TANGENT OF LOSS		0.40	0.30	-	0.19	0.16	0.14	0.14	-	-			
ANGLE (TAN δ) (MAX.) (120Hz)		0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10			
		0.40	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.10			
LEAKAGE CURRENT (L.C.) (µA/after 2min.)(MAX.)		0.02 to be added to the above value every time nominal capacitance exceeds 1000 µF											
IMPEDANCE (120HZ) RATIO AT LOW TEMPERATURE (MAX.)		The greater value of either 0.01CV or 3											
		Z-25°C/Z20°C	7	4	3	2	2	2	2	2	2		
		Z-40°C/Z20°C	15	8	6	4	4	3	3	3	3		
HIGH TEMPERATURE LOAD RATED VOLTAGE APPLIED		85°C 2000 hrs.											
		Within ± 20% of the initial value											
		≤ Twice the initial standard											
		≤ The initial standard											
RESISTANCE TO SOLDERING HEAT		Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward downward will fulfill the following conditions after being cooled to room temperature.											
		Within ± 10% of the initial value											
		≤ The initial standard											
		≤ The initial standard											
OTHER CHARACTERISTICS		Conform to IEC 60384-18											

DIMENSIONS

(unit ; mm)



D _{+0.3MAX.}	L	W _{+0.2}	H _{+0.2}	C _{+0.2}	R	P _{+0.2}
3	5.4 ^{+0.1}	3.3	3.3	3.9	0.45 to 0.75	0.6
4	5.4 ^{+0.1}	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4 ^{+0.1}	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	5.4 ^{+0.1}	6.6	6.6	7.3	0.5 to 0.8	2.2
4	6.0 ^{+0.3}	4.3	4.3	5.0	0.5 to 0.8	1.0
6.3	6.0 ^{+0.3}	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7 ^{+0.3}	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.2 ^{+0.3}	8.3	8.3	9.0	0.7 to 1.0	3.2
10	7.7 ^{+0.3}	10.3	10.3	11.0	1.1 to 1.4	4.6
10	10.2 ^{+0.3}	10.3	10.3	11.0	1.1 to 1.4	4.6
12.5	13.5 ^{+0.5}	12.8	12.8	13.5	1.1 to 1.4	4.6
16	16.5 ^{+0.5}	16.3	16.3	17.0	1.8 to 2.1	7.0

DIMENSIONS

µF	V	4	6.3	10	16	25	35	50	63	100
0.1 to 0.47								4x5.4 [±] 1 to 5(1 to 4)	4x5.4 1 to 5	
1.0								4x5.4 [±] 10(8)	4x5.4 10	4x6.0 10
2.2								4x5.4 [±] 15(10)	4x5.4 15	6.3x6.0 20
3.3								4x5.4 [±] 18	5x5.4 20	6.3x6.0 28
4.7								4x5.4 [±] 20	5x5.4 23	6.3x6.0 35
10					4x5.4 [±] 25(18)	5x5.4 28	5x5.4 30	6.3x5.4 34	6.3x5.4 34	6.3x7.7 50
22	4x5.4	26	5x5.4 39	5x5.4 43	6.3x5.4 57	6.3x5.4 63	6.3x6.0 60	6.3x7.7 85	8x10.2 160	10x10.2 190
33	4x5.4	34	5x5.4 47	6.3x5.4 59	6.3x5.4 68	6.3x6.0 68	6.3x6.0 70	6.3x7.7 90	8x10.2 170	12.5x13.5 330
47								10x7.7 200		
82								8x10.2 200		
100	5x5.4	61	6.3x5.4 71	6.3x5.4 76	6.3x5.4 86	6.3x7.7 130	6.3x7.7 120	8x10.2 220		16x16.5 560
150				6.3x6.0 88	6.3x7.7 135	8x10.2 200	8x10.2 220			
220	6.3x5.4	82	6.3x6.0 95	6.3x7.7 150	6.3x7.7 150	8x10.2 250	8x10.2 270	10x10.2 320	12.5x13.5 410	
330	6.3x6.0	102	6.3x7.7 150	8x10.2 280	8x10.2 280	8x10.2 310	10x10.2 340			
390					10x7.7 280					
470	6.3x7.7	150	8x10.2 300	8x10.2 300	8x10.2 300	8x10.2 330	10x10.2 430	12.5x13.5 590	16x16.5 700	
680					10x10.2 450			12.5x13.5 610		
1000	10x7.7	330	8x10.2 330	10x10.2 450				16x16.5 940		
1500										
2200					12.5x13.5 730					
3300						16x16.5 1200				
4700					16x16.5 1260					
6800										

Model No.
16CAE10S

└ 10µF, Capacitance symbol
└ 16V, Rated voltage

Ripple Current
mA r.m.s.
(120Hz, 85°C)

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