



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

CAE-S SURFACE MOUNT TYPE STANDARDS

FEATURES

□ SOLVENT PROOF (WITHIN 2 MINUTES).

SPECIFICATIONS

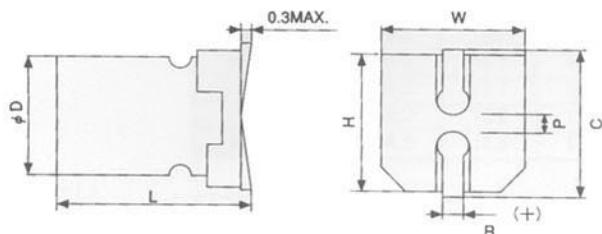
RoHS
Compliant



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	α3	0.40	0.30	-	0.19	0.16	0.14	0.14	-	-
ANGLE (TAN δ)	α4 to α6.3	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10
(MAX.) (120Hz)	α8 to α16	0.40	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.10
0.02 to be added to the above value every time nominal capacitance exceeds 1000 μF										
LEAKAGE CURRENT (L.C.) (μA/after 2min.)(MAX.)	The greater value of either 0.01CV or 3									
IMPEDANCE (120HZ) RATIO AT LOW TEMPERATURE (MAX.)	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	TEST	85°C 2000 hrs.								
	Δ C/C	Within ± 20% of the initial value								
	tan δ	≤ Twice the initial standard								
	L.C.	≤ The initial standard								
RESISTANCE TO SOLDERING HEAT	TEST	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.								
	Δ C/C	Within ± 10% of the initial value								
	tan δ	≤ The initial standard								
	L.C.	≤ The initial standard								
OTHER CHARACTERISTICS		Conform to IEC 60384-18								

DIMENSIONS

(unit ; mm)



D±0.5MAX.	L	W±0.2	H±0.2	C±0.2	R	P±0.2
3	5.4 ±0.2	3.3	3.3	3.9	0.45 to 0.75	0.6
4	5.4 ±0.2	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4 ±0.2	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	5.4 ±0.2	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								5x5.4 23	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	φ (19)	4x5.4 31(19)	5x5.4 35	5x5.4 39	6.3x5.4 52	6.3x5.4 54	6.3x6.0 60	6.3x7.7 85	8x10.2 160	10x10.2 190
33	4x5.4 26	5x5.4 39	5x5.4 43	6.3x5.4 57	6.3x5.4 63	6.3x6.0 68	6.3x7.7 70	8x10.2 170	12.5x13.5 330	
47	4x5.4 34	5x5.4 47	6.3x5.4 59	6.3x5.4 68	6.3x6.0 70	6.3x7.7 90	8x10.2 170	12.5x13.5 330		
82										
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	10x10.2 280		
150			6.3x6.0 88	6.3x7.7 135	8x10.2 200	8x10.2 220	10x7.7 220		16x16.5 560	
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	8x10.2 330	10x10.2 430	12.5x13.5 590		16x16.5 700		
680										
1000		10x7.7 300		10x10.2 450		12.5x13.5 610				
1500		8x10.2 330	10x10.2 450				16x16.5 940			
2200	10x7.7 330				12.5x13.5 710	16x16.5 1150				
3300			12.5x13.5 750		16x16.5 1200					
4700				16x16.5 1260						
6800			16x16.5 1330							

Model No.
16CAE10S

10μF, Capacitance symbol
16V, Rated voltage

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