

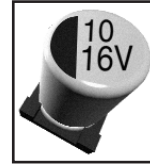


**CAE-M SURFACE MOUNT TYPE ULTRA MINI VERSION, 3MM IN DIAMETER**

**CAE-S SURFACE MOUNT TYPE STANDARDS**

**FEATURES**

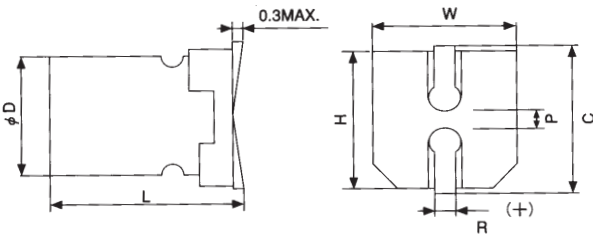
- ☐ SOLVENT PROOF (WITHIN 2 MINUTES).



**SPECIFICATIONS**

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	ø3	0.40	0.30	-	0.19	0.16	0.14	0.14	-	-	
ANGLE (TAN δ)	ø4 to ø6.3	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10	
(MAX.) (120Hz)	ø8 to ø16	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 ± 25% 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 <sub>+0.5MAX.</sub>	L	W <sub>-0.2</sub>	H <sub>-0.2</sub>	C <sub>-0.2</sub>	R	P <sub>-0.2</sub>
3	5.4 <sup>+0.1</sup>	3.3	3.3	3.9	0.45 to 0.75	0.6
4	5.4 <sup>+0.1</sup>	4.3	4.3	5.0	0.5 to 0.8	1.0
5	5.4 <sup>+0.1</sup>	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	5.4 <sup>+0.1</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
4	6.0 <sup>+0.3</sup>	4.3	4.3	5.0	0.5 to 0.8	1.0
6.3	6.0 <sup>+0.3</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7 <sup>+0.3</sup>	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.2 <sup>+0.3</sup>	8.3	8.3	9.0	0.7 to 1.0	3.2
10	7.7 <sup>+0.3</sup>	10.3	10.3	11.0	1.1 to 1.4	4.6
10	10.2 <sup>+0.3</sup>	10.3	10.3	11.0	1.1 to 1.4	4.6
12.5	13.5 <sup>+0.5</sup>	12.8	12.8	13.5	1.1 to 1.4	4.6
16	16.5 <sup>+0.5</sup>	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									
1.0							4x5.4*	1 to 5(1 to 4)	4x5.4 1 to 5
2.2						☼ (8)	4x5.4*	15(10)	4x5.4 15
3.3						☼ (10)	4x5.4	18	5x5.4 20
4.7							4x5.4	23	5x5.4 23
10				4x5.4*	19(12)	4x5.4	20	5x5.4	23
22	☼ (19)	4x5.4*	31(19)	5x5.4	35	5x5.4	28	5x5.4	30
33	4x5.4	26	5x5.4	39	5x5.4	43	6.3x5.4	52	6.3x5.4
47	4x5.4	34	5x5.4	47	6.3x5.4	59	6.3x5.4	68	6.3x6.0
82									
100	5x5.4	61	6.3x5.4	71	6.3x5.4	76	6.3x5.4	86	6.3x7.7
150									
220									
330									
390									
470									
680									
1000									
1500									
2200									
3300									
4700									
6800									

Model No. 16CAE10S      16CAE10S      ☼DXL      ☼;CAE-M series (3x5.4)      Ripple Current mA r.m.s. (120Hz, 85°C) ; CAE-C series

10µF, Capacitance symbol      10µF, Capacitance symbol      10x7.7 ; CAE- series

16V, Rated voltage