



SURFACE MOUNT TYPE 105°C STANDARD (LOW VOLTAGE)

FEATURES

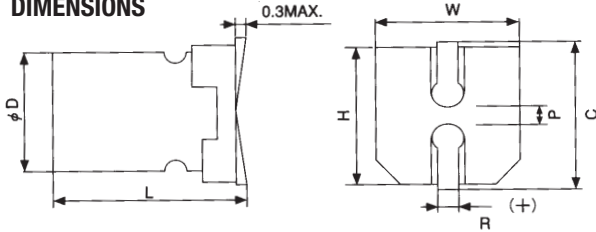
- CAE-NT SERIES (6.3 TO 63V) HAS STABLE CHARACTERISTICS AT THE TEMPERATURE OF WIDE RANGE -55 ~+105°C
- SOLVENT PROOF (WITHIN 2 MINUTES).

SPECIFICATIONS

ITEMS		SPECIFICATIONS							
RATED VOLTAGE (V)		6.3	10	16	25	35	50	63	100
OPERATING TEMPERATURE RANGE (°C)		-55 to +105							
CAPACITANCE TOLERANCE (%)		±20 (120Hz)							
TANGENT OF LOSS ANGLE (TAN δ) (MAX.) (120Hz)	ø4 to ø 6.3	0.24	0.20	0.16	0.14	0.12	0.10	0.12	0.10
	ø8 to ø16	0.28	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.)	Z-40°C/Z20°C	3	3	2	2	2	2	2	3
	Z-55°C/Z20°C	8	5	4	3	3	3	3	-
HIGH TEMPERATURE LOAD 105°C RATED VOLTAGE APPLIED	TEST TIME	1000hrs. (øD ≥ 8, 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 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							

(unit ; mm)

DIMENSIONS



D ^{+0.5MAX.}	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	4.3	5.0	0.5 to 0.8	1.0
4	6.0 ^{+0.3}	4.3	6.6	7.3	0.5 to 0.8	2.2
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	6.3	10	16	25	35	50	63	100		
0.1 to 0.47						4x5.4	0.7 to 3.5	4x5.4	0.7 to 3.5	
1.0						4x5.4	7	4x5.4	7	
2.2						4x5.4	11	4x5.4	11	
3.3						4x5.4	13	5x5.4	14	
4.7						4x5.4	16	5x5.4	16	
10				4x5.4	13	4x5.4	14	5x5.4	16	
22	4x5.4	22	5x5.4	27	6.3x5.4	36	6.3x5.4	38	6.3x6.0	20
33	5x5.4	27	5x5.4	30	6.3x5.4	40	6.3x5.4	42	6.3x7.7	25
47	5x5.4	33	6.3x5.4	41	6.3x5.4	48	6.3x6.0	49	6.3x7.7	35
68										84
82										133
100	6.3x5.4	50	6.3x5.4	53	6.3x5.4	60	6.3x7.7	91	6.3x7.7	84
150			6.3x6.0	62	6.3x7.7	95	8x10.2	140	8x10.2	155
220	6.3x6.0	67	6.3x7.7	105	6.3x7.7	105	8x10.2	175	8x10.2	190
330	6.3x7.7	105	8x10.2	195	8x10.2	195	10x10.2	300		
390										
470	8x10.2	210	8x10.2	210	8x10.2	230	10x10.2	300	12.5x13.5	410
680					10x10.2	310			12.5x13.5	430
1000	10x7.7	210								
1500	8x10.2	230	10x10.2	310			12.5x13.5	460	16x16.5	655
2200	10x10.2	310			12.5x13.5	500				
3300			12.5x13.5	510			16x16.5	805		
4700	12.5x13.5	520			16x16.5	840				
6800	16x16.5	930								

Model No. 16CAE470NT øDXL 10x7.7 ; CAE- series Ripple Current mA r.m.s. (120Hz, 105°C)

470µF, Capacitance symbol 10µF, Capacitance symbol

16V, Rated voltage



SURFACE MOUNT TYPE 105°C STANDARD (MID AND HIGH VOLTAGE)

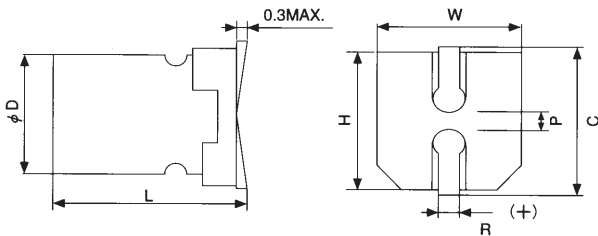
FEATURES

□ MIDDLE & HIGH VOLTAGE PRODUCTS IS ADDED TO CAE-NT SERIES (-40 TO + 105°C 2000HRS).

SPECIFICATIONS

ITEMS		SPECIFICATIONS			
RATED VOLTAGE (V)		160	200	250	400
OPERATING TEMPERATURE RANGE (°C)		-40 to +105			
CAPACITANCE TOLERANCE (%)		±20 (120Hz)			
TANGENT OF LOSS ANGLE (TAN δ) (MAX.) (120HZ)		0.20			0.25
LEAKAGE CURRENT (L.C.) (µA/AFTER 2MIN.) (MAX.)		CV ≤ 1000 ; 0.03CV +15 CV > 1000 ; 0.02CV +25			
IMPEDANCE (120HZ) RATIO AT LOW TEMPERATURE (MAX.)	Z-25°C/Z20°C	3	3	3	6
	Z-40°C/Z20°C	6	6	6	10
HIGH TEMPERATURE LOAD 105°C 2000hrs. (øD≤8,1000HRS.) RATED VOLTAGE APPLIED	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 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}
8	10.5 ^{+0.3}	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5 ^{+0.3}	10.3	10.3	11.0	1.1 to 1.4	4.6
12.5	13.5 ^{+0.3}	12.8	12.8	13.5	1.1 to 1.4	4.6
16	16.5 ^{+0.3}	16.3	16.3	17.0	1.8 to 2.1	7.0

DIMENSIONS

µF \ V	160	200	250	400
2.2				8x10.5 25
3.3			8x10.5 31	10x10.5 36
4.7			8x10.5 37	10x10.5 38
6.8			8x10.5 44	12.5x13.5 47
10	8x10.5 57	10x10.5 64	10x10.5 64	12.5x13.5 57
22	12.5x13.5 112	12.5x13.5 112	12.5x13.5 112	16x16.5 115
33	12.5x13.5 137	12.5x13.5 137	16x16.5 150	
47	16x16.5 180	16x16.5 180	16x16.5 180	
68	16x16.5 215	16x16.5 215		
82	16x16.5 235			

Model No.
200CAE10NT

└─ 10µF, Capacitance symbol
└─ 200V, Rated voltage

└─ øDXL

└─ Ripple Current
mA r.m.s.
(120Hz, 105°C)