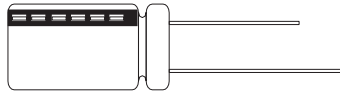


CACA SERIES: Wide Temp. Anti-Solvent, 105°C

FEATURES

- ◆ 105 °C, Solvent-proof type
- ◆ Suitable for high reliability products

SPECIFICATIONS

Item	Performance								
	CACA				CACA				
Life	At 105°C 1000 Hrs				At 105°C 2000 Hrs				
Operating Temperature	-55°C ~ +105°C								
Capacitance Tolerance	± 20% (120Hz, 20°C)								
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V=rated DC working voltage in V.								
Dissipation Factor Tanδ at 120 Hz, 20°C	Rated Voltage	6.3	10	16	25	35	50	63	
	Tanδ (max)	0.23	0.20	0.16	0.14	0.12	0.10	0.09	
When the capacitance exceed 1000 F 0.02 shall be added every 1000 F increase..									
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below								
	Impedance Ratio	Rated Voltage							
		Z(-25°C) /Z(+20°C)	φD<1/6	4	3	3	2	2	2
	Z(-55°C) /Z(+20°C)	φD>1/6	5	4	3	2	2	3	3
		φD<1/6	8	6	4	4	4	3	3
φD>1/6	10	8	6	4	3	3	3		
Load Life Test	Test Time	1000hrs / 2000hrs							
	Capacitance Change	Within ± 20%							
	Dissipation Factor	Less than 200% of specified value.							
	Leakage Current	Within specified value							
	The above specification shall be satisfied when the capacitors are restored to 20°C after rated voltage applied for 1000/2000 hrs at 105°C.								
Shelf Life Test	Test Time	1000 Hrs							
	Capacitance Change	Within ± 20% of initial value							
	Dissipation Factor	Less than 200% of specified value							
	Leakage Current	Within Specified value							
	The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hrs at 105°C without voltage applied.								
Ripple Current & Frequency Multipliers	Freq. (Hz) Cap. (μF)	60	120	500	1K	10K up			
		Under 100	0.70	1.00	1.30	1.40	1.50		
	Multipliers	100 to 1000	0.75	1.00	1.20	1.30	1.35		
		1000 and above	0.80	1.00	1.10	1.12	1.15		
Ripple Current & Temperature Multipliers	Temperature (°C)	45	70	85	105				
	Multipliers	1.95	1.78	1.40	1.00				
Standards	Satisfies Characteristic W of JIS C 5141								

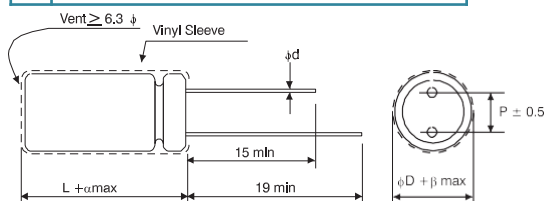
PART NUMBER EXAMPLE

CACA 227M 1H B 100 200

Code	Lead Forming Type
O	Bulk
T	5mm Chip tape
A	(Φ4~Φ6.3)2.5mm tape
F	(Φ4~Φ8)5mm tape
P	Φ≥Φ8mm original(vertical)tape
M	5mm Lead forming
C	C Lead forming
B	B Lead forming
D	(Φ4~Φ8)2.5mm Lead forming

LEAD SPACING AND DIAMETER

φD	5	6.3	8	10	13	16	18	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
φd	0.5		0.6		0.8		1.0	
α	1.0			1.5			2.0	
β	0.5							



CACA SERIES: Wide Temp. Anti-Solvent, 105°C

DIMENSIONS AND PERMISSABLE RIPPLE CURRENT

 Dimension: $\Phi D \times L$ (mm)

Ripple Current: mA/RMS at 120Hz 105°C

μF	VDC Code	6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)		50V(1H)		63V(1J)	
		$\Phi D \times L$	mA	$\Phi D \times L$	mA	$\Phi D \times L$	mA	$\Phi D \times L$	mA	$\Phi D \times L$	mA	$\Phi D \times L$	mA	$\Phi D \times L$	mA
0.1	104											5 x 11	1.3	5 x 11	2.1
0.22	224											5 x 11	2.9	5 x 11	3.2
0.33	334											5 x 11	4.3	5 x 11	5.4
0.47	474											5 x 11	7.1	5 x 11	7.1
1	105											5 x 11	13	5 x 11	15
2.2	225											5 x 11	20	5 x 11	26
3.3	335											5 x 11	30	5 x 11	31
4.7	475											5 x 11	33	5 x 11	36
10	106					5 x 11	36	5 x 11	40	5 x 11	45	5 x 11	50	5 x 11	54
22	226					5 x 11	58	5 x 11	68	5 x 11	71	5 x 11	78	6.3 x 11	96
33	336					5 x 11	76	5 x 11	78	6.3 x 11 5 x 11	90 85	6.3 x 11 5 x 11	96 90	8 x 11.5 6.3 x 11	141 100
47	476			5 x 11	76	5 x 11	90	5 x 11	97	6.3 x 11 5 x 11	105 90	8 x 11.5 6.3 x 11	130 117	8 x 11.5 6.3 x 11	151 129
100	107	5 x 11	103	5 x 11	111	6.3 x 11 5 x 11	133 110	6.3 x 11	142	8 x 11.5 6.3 x 11	170 150	8 x 11.5	188	10 x 12.5	235
220	227	6.3 x 11 5 x 11	160 140	6.3 x 11 5 x 11	175 150	8 x 11.5 6.3 x 11	215 180	8 x 11.5	236	10 x 12.5 8 x 11.5	300 270	10 x 20 10 x 16	355 335	10 x 20 10 x 16	400 360
330	337	8 x 11.5 6.3 x 11	219 190	8 x 11.5 6.3 x 11	245 200	8 x 11.5	260	10 x 12.5 8 x 11.5	335 330	10 x 16 10 x 12.5	400 350	10 x 20 10 x 16	460 410	13 x 20 10 x 20	520 490
470	477	8 x 11.5 6.3 x 11	261 230	8 x 11.5 6.3 x 11	290 250	10 x 12.5 8 x 11.5	370 310	10 x 16 10 x 12.5	440 380	10 x 20 10 x 16	520 460	13 x 20 10 x 20	610 530	13 x 25 13 x 20	720 665
1000	108	10 x 12.5 8 x 11.5	455 380	10 x 16 10 x 12.5	550 460	10 x 20 10 x 16	640 560	13 x 20 10 x 20	770 680	13 x 25 13 x 20	920 830	16 x 25 13 x 25	1080 980	16 x 31.5 16 x 25	1260 1190
2200	228	10 x 20	750	13 x 20 10 x 20	860 760	13 x 25 13 x 20	1000 920	16 x 25 13 x 25	1170 1090	16 x 31.5 16 x 25	1340 1260	18 x 35.5 16 x 35.5	1530 1470		
3300	338	13 x 20 10 x 20	920 840	13 x 20	1100	16 x 25 13 x 25	1300 1170	16 x 31.5 16 x 25	1460 1400	18 x 35.5 16 x 35.5	1650 1610	22 x 40 18 x 35.5	1707 1650		
4700	478	16 x 25 16 x 20	1330 1090	16 x 25 13 x 25	1400 1260	16 x 31.5 16 x 25	1600 1480	18 x 35.5 16 x 31.5	1780 1710	18 x 40 18 x 35.5	1900 1875				

PART NUMBER EXAMPLE
CACA 221 M 1H BK 100 200