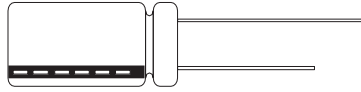


CADD SERIES: 105C, up to 10,000 hours



FEATURES

- ◆ 105°C, 8,000 ~ 10,000 hours assured
- ◆ Suitable for switching power supplies, UPS, Ballast
- ◆ Smaller size with large permissible ripple current
- ◆ RoHS Compliant

SPECIFICATIONS

Items	Performance						
Rated Voltage Range	160 ~ 400V				450V		
Operating Temperature Range	-40°C ~ +105°C				-25°C ~ +105°C		
Capacitance Tolerance	+20% (at 120Hz, 20°C)						
Leakage Current (at 20 °C)	Time	after 1 minute			after 5 minutes		
		Leakage Current	CV ≤ 1000	CV ≥ 1000		CV ≤ 1000	CV ≥ 1000
	I = 0.1CV + 40 (μA)		I = 0.04CV + 100 (μA)		I = 0.03CV + 15 (μA)	I = 0.02cv + 25 (μA)	
	Where C = rated capacitance in μF. V = rated DC working voltage in V.						
Dissipation Factor (Tan δ at 120Hz, 20 °C)	Rated Voltage	200	250	350	400	450	
	Tan δ (max)	0.20	0.20	0.24	0.24	0.24	
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.						
	Impedance	Rated Voltage	200	250	350	400	450
		Z (-25) / Z (+20°C)	3	3	5	5	6
	Ratio	Z (-40) / Z (+20°C)	6	6	6	6	-
Load Life Test	Test Time	8,000 hrs for ΦD = 10mm; 10,000 hrs for ΦD >12.5mm					
	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 the rated voltage applied with rated ripple current for 8,000 hrs / 10,000 hrs at 105 °C.						
Shelf Life Test	Capacitance Change	Within + 20% of initial value					
	Dissipation Factor	Less than 200% of specified value					
	Leakage Current	Less than 500% of specified value					
	* The above specifications shall be satisfied when the capacitors are restored to 20 °C after exposing them for 1,000 hrs at 105 °C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5102).						
Ripple Current & Frequency Multipliers	Freq. (Hz)	120	1k	10k	100k up		
		ΦD (mm)	10	0.25	0.61	0.88	1.0
		12.5 ~ 18	0.35	0.66	0.89	1.0	
Other Standards	JIS C 5101-4						

PART NUMBER EXAMPLE

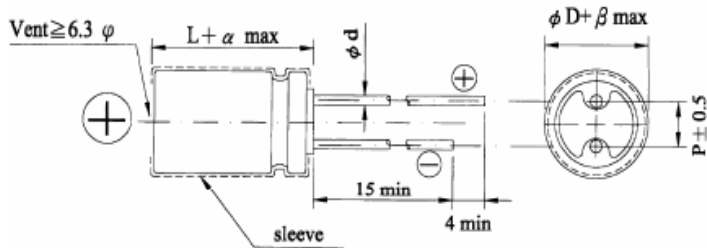
CADD 226 M 1C B 050 110

DIMENSIONS

Unit: mm

φD	10	12.5	16	18
P	5.0		7.5	
φd	0.6		0.8	
α	1.5			
β	0.5			

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



CADD SERIES: 105C, up to 10,000 hours



DIMENSIONS & PERMISSIBLE RIPPLE CURRENT

Ripple Current: mA/rms at 105°C

V.D.C Item μF	160V (2C)			200V (2D)			250V (2E)		
	φD x L	Ripple Current		φD x L	Ripple Current		φD x L	Ripple Current	
		120Hz	100kHz		120Hz	100kHz		120Hz	100kHz
10	10 x 16	125	315	10 x 16	125	315	10 x 20	140	350.00
22	10 x 20	200	500	10 x 20	200	500	10 x 20	200	500
33	10 x 20	250	625	10 x 20	260	650	12.5 x 20	320	800
47	10 x 20	300	750	12.5 x 20	390	975	12.5 x 20	390	975
68	12.5 x 20	470	1175	12.5 x 20	470	1175	16 x 20	520	1300
82	12.5 x 20	510	1275	16 x 20	550	1375	16 x 20	550	1,375
100	12.5 x 25	620	1,395	16 x 20	630	1,420	16 x 25	680	1,530
	16 x 20	630	1,420						
150	16 x 20	770	1,735	16 x 25	840	1,890	18 x 25	860	1,935
220	16 x 25	1,020	2,295	18 x 25	1,050	2,365	18 x 31.5	1,130	2545
330	18 x 31.5	1,390	3,130	18 x 35.5	1,430	3,220			

V.D.C Item μF	350V (2V)			400V (2G)			450V (2W)		
	φD x L	Ripple Current		φD x L	Ripple Current		φD x L	Ripple Current	
		120Hz	100kHz		120Hz	100kHz		120Hz	100kHz
6.8	10 x 16	110	275	10 x 16	110	275	10 x 20	110	275
10	10 x 20	140	350	10 x 20	140	350	12.5 x 20	180	450
22	12.5 x 20	260	650	12.5 x 20	260	650	16 x 20	290	725
33	16 x 20	360	900	16 x 20	360	900	16 x 25	390	975
							18 x 20	380	950
47	16 x 20	430	1,075	16 x 25	470	1,175	18 x 25	480	1,200
				18 x 20	450	1,125			
68	16 x 25	560	1,400	18 x 25	585	1,465	18 x 31.5	630	1,575
	18 x 20	550	1,375						
82	18 x 25	610	1,525	18 x 25	610	1,525	18 x 35.5	715	1,785
100	18 x 25	700	1,575	18 x 31.5	765	1,720	18 x 40	800	1,800
120	18 x 31.5	830	1,865	18 x 35.5	865	1,945			
150	18 x 35.5	960	2,160	18 x 40	985	2,215			