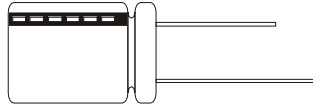


CADC SERIES: Low ESR, High Temperature

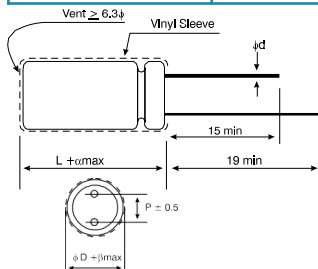


FEATURES

- ◆ 105C, 5000 hours assured
- ◆ Low ESR, suitable for switching power supplies, UPS, Ballast
- ◆ Smaller size with large permissible ripple current

SPECIFICATIONS

Item	Performance									
Rated Voltage Range	200 ~ 400V					450V				
Operating Temp.	-40°C ~+105°C					-25°C ~+105°C				
Capacitance Tolerance	± 20% (120Hz, 20°C)									
Leakage Current (at 20°C)	Time		After 5 minutes							
	Leakage Current	CV≤1000				CV≤1000				
		I = 0.03CV (μA)				I = 0.03CV (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				
	Tanδ (max)	0.20	0.20	0.24	0.14	0.24				
Low Temperature Characteristics (at 120Hz)	Rated Voltage		200	250	350	400	450			
	Impedance Ratio	Z(-25°C)/Z(+20°C)	3	3	3	5	6			
		Z(-40°C)/Z(+20°C)	4	4	4	6				
	Impedance ratio shall not exceed the values given in the table above.									
Load Life Test	Test Time		5000 hours							
	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 capacitors are restored to 20°C after voltage with rated ripple current applied for 5000 hours at 105°C.										
Shelf Life Test	Test time: 1000 hours; other items are the same as those for load life test.									
Ripple Current & Frequency Multipliers	Freq. (Hz)	120	1K	10K	100K up					
	φD (mm)									
	10	0.8	1.0	1.25	1.40					
	12.5 ~ 18	0.8	1.0	1.15	1.25					
Other Standards	JIS C 5101-4									

PART NUMBER EXAMPLE
CADC 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

DIMENSIONS & PERMISSIBLE RIPPLE CURRENT Dimension: φD x L (mm) Ripple Current: mA/rms at 120Hz, 105°C

V.DC Content μF	200V (2D)				250V (2E)				350V (2V)				400V (2G)				450V (2W)			
	φD x L		Ripple Current		φD x L		Ripple Current		φD x L		Ripple Current		φD x L		Ripple Current		φD x L		Ripple Current	
	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz	120Hz	100KHz
2.2									10 x 16	37.5	150		10 x 16	35	140					
3.3									10 x 16	47	180		10 x 16	47	180		10 x 16	38	150	
4.7									10 x 16	47.5	190		10 x 16	72.5	290		10 x 20	55	220	
6.8									10 x 16	55	220		10 x 20	62.5	250		12.5 x 20	98	280	
10	10 x 16	47.5	190		10 x 16	47.5	190		10 x 20	147	420		12.5 x 25	147	420		16 x 25	182	520	
22	10 x 20	80	320		12.5 x 20	137	390		12.5 x 25	193	550		16 x 25	193	550		16 x 31.5	217	620	
33	12.5 x 20	154	440		12.5 x 20	147	420		16 x 25	245	700		16 x 31.5	245	700		18 x 31.5	277	790	
47	12.5 x 25	200	570		16 x 25	217	620		18 x 31.5	273	780		18 x 31.5	273	780		18 x 40	357	1020	
68	16 x 25	259	740		16 x 25	259	740		18 x 35.5	368	1050		18 x 40	385	1100					
100	16 x 25	319	910		16 x 31.5	350	1000		18 x 40	403	1150		18 x 45	420	1200					
120	16 x 31.5	361	1030		18 x 31.5	399	1140													
150	16 x 31.5	424	1210		18 x 35.5	473	1350													
180	18 x 31.5	490	1400		18 x 40	536	1530													
220	18 x 35.5	578	1650		18 x 45	623	1780													
270	18 x 40	648	1850																	
330	18 x 45	735	2100																	