

CD11SE



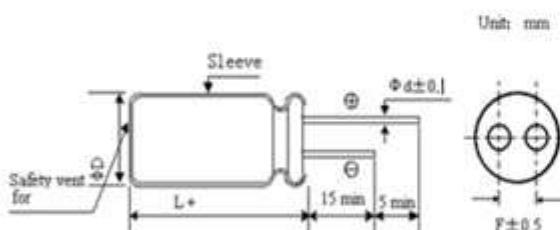
- Specially designed for LED driver . Standard product .
- Load life 10000 hours at 105°C
- Large Ripple Current ,High Frequency ,Low ESR.
- ROHS Compliant



◆ Specifications

Items	Characteristics							
Operation Temperature Range	-40~+105°C							
Rated Voltage Range	6.3~50Vdc							
Load Life	≤φ8 10000hours; ≥φ10 12000hours							
Capacitance Tolerance	±20% (at25°C,120Hz)							
Leakage Current	I≤0.01CV or 3uA C:Nominal capacitance(μF) V:Rated voltage(v) (at25°C after 1minutes)							
Dissipation factor(tanδ) (at 25°C 120HZ)	Rated voltage(Vdc)	6.3	10	16	25	35	50	
	tanδ(Max)	0.24	0.22	0.16	0.14	0.12	0.10	
Impedance Ratio(at 120Hz)	$Z(-25^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 2$						(120HZ)	
	$Z(-40^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 3$							
Load life (+105°)	After an application of D.C bias voltage and rated ripple current,the peak voltage shall not exceed the rated D.C voltage for 10000 hours at 105°C,the capacitors shall meet the following requirement.							
	Capacitance change	≤±25% of the initial value						
	D.F.(tanδ)	≤200% of the initial specified value						
	Leakage current	≤The initial specified value						
Shelf life (+105°)	After leaving capacitors under no load at105°C for 1000 hours,the following specification shall be satisfied after 16 hours at normal temperature.							
	Capacitance change	≤±25% of the initial value (6.3V、10V :±30%)						
	D.F.(tanδ)	≤200% of the initial specified value						
	Leakage current	≤200% The initial specified value						

◆ Diagram of Dimensions



D	±0.5			±1.0	
	5	6.3	8	10	12.5
L+2-0	11	11	9~20	9~20	20~25
F±0.5	2	2.5	3.5	5	
d±0.1	0.5		0.6		

◆ Temperature Coefficient

Temperature(°C)	70	85	105
Coefficient	1.8	1.4	1

◆ Frequency Coefficient

Freq C(μF)	120Hz	1KHz	10KHz	100KHz
22~180	0.40	0.75	0.90	1.00
220~560	0.5	0.85	0.94	1
680~1800	0.6	0.87	0.95	1

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Ratings for CD11SE Series

Surge Voltage	Rated Capacitance	Size	Ripple (100KHZ 105°)
6.3V	220	5*12	345
	470	6.3*12	540
	820	8*12	945
	1200	8*16	1250
	1200	10*13	1330
	1500	8*20	1500
	1800	10*16	1760
	2200		
	2200	10*20	1960
	2700		
		12.5*20	2250
	3900	12.5*20	2480
	4700	12.5*25	2900
10V	150	5*12	345
	330	6.3*12	540
	680	8*11	945
	1000	8*16	1250
	1000	10*13	1330
	1500	8*20	1500
	1500	10*16	1760
	1800	10*20	1960
	2200	12.5*20	2250
	3300	12.5*20	2480
	3900	12.5*25	2900
	16V	100	5*12
220		6.3*12	540
470		8*12	945
680		8*16	1250
680		10*13	1330
1000		8*20	1500
1000		10*16	1760
1500		10*20	1960
1800		12.5*20	2250
2200		12.5*20	2480
2700		12.5*25	2900

Surge Voltage	Rated Capacitance	Size	Ripple (100KHZ 105°)
25V	68	5*12	345
	150	6.3*12	540
	330	8*12	945
	390	8*16	1250
	470	10*13	1330
	560	8*20	1500
	680	10*16	382
		10*16	1760
	33	10*20	420
		12.5*20	468
	820	10*20	1960
	1	6.3*11.5	58
	1000	12.5*20	2250
	1500	12.5*20	2480
	1800	12.5*25	2900
	35V	47	5*12
100		6.3*12	540
220		8*16	945
270		8*20	1250
330		10*13	1330
390		8*20	1500
470		10*16	1760
560		10*20	1960
680		12.5*20	2250
1000		12.5*20	2480
1200		12.5*25	2900
50V		22	5*12
	56	6.3*12	385
	100	8*12	724
	120	8*16	950
	150	10*13	979
	180	8*20	1190
	220	10*16	1370
	270	10*20	1580
	330	12.5*20	1870
	470	12.5*20	2050
	560	12.5*25	2410