

CD11LE



- Specially designed for LED driver . Standard product .
- Load life 8000 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	6.3~160Vdc							
Load Life	φ5;φ6.3 6000hours;≥φ8 8000hours							
Capacitance Tolerance	±20~+20% ; -10%+20% (at25°C ,120Hz)							
Leakage Current	6.3~100Vdc		160~450VDC		C:Nominal capacitance(μF)			
	I≤0.01CV or 3 μA whichever is greater		I≤0.02CV+10μA		V:Rated voltage(v) (at25°C after 1 minutes)			
Dissipation factor(tanδ) (at 25°C 120HZ)	Rated voltage(Vdc)	10	16	25	35	50	63	100
	tanδ(Max)	0.22	0.16	0.14	0.12	0.10	0.09	0.1
(Impedance Ratio at 120Hz)	Rated voltage(Vdc) Z(-40°C)/Z(+25°C)	10	16	25	35	50	63	100
		6	4	3	3	3	3	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 φ5;φ6.3 6000hours;≥φ8 8000hours at 105°C,the capacitors shall meet the following requirement.							
	Capacitance change	≤±20% 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	≤±20% of the initial value						
	D.F.(tanδ)	≤200% of the initial specified value						
	Leakage current	≤200% The initial specified value						

CD11LE



Ratings for CD11LE Series

Surge Voltage	Rated Capacitance	Size	Max Imp 20°C 100KHZ	Ripple (100KHZ 105°)	Surge Voltage	Rated Capacitance	Size	Max Imp 20°C 100KHZ	Ripple (100KHZ 105°)	
V	uF	mm*mm	(Ω)	mA	V	uF	mm*mm	(Ω)	mA	
10V	100	5*11.5	0.58	150	35V	330	10*16	0.061	1239	
	150	5*11.5	0.38	201		470	10*20	0.048	1421	
	220	5*11.5	0.25	220		680	12.5*20	0.031	1912	
	330	5*11.5	0.21	350		1000	12.5*25	0.027	2215	
	470	6.3*11.5	0.17	360		50V	10	5*11.5	1.1	150
	560	8*11.5	0.11	411			10	5*9	1.2	130
	1000	10*12.5	0.06	700	22		5*11.5	0.68	190	
	1500	10*16	0.048	1498	22		5*9	0.72	175	
	16V	220	6.3*11.5	0.2	523		33	5*11.5	0.54	250
330		6.3*11.5	0.16	562	33		6.3*9	0.52	235	
470		8*11.5	0.096	894	47		6.3*11.5	0.42	320	
560		8*16	0.105	1012			8*9	0.4	300	
680		10*12.5	0.068	1423	100		8*11.5	0.18	575	
1000		8*16	0.065	1321		8*9	0.185	550		
		8*20	0.049	1596	150	10*12.5	0.12	767		
1000		10*16	0.047	1678	220	10*16	0.084	1054		
		25V	10	5*11.5	1.4	130	330	12.5*20	0.054	1451
22	5*9		0.84	110	470	12.5*20	0.046	1672		
33	5*11.5		0.7	220	560	12.5*25	0.035	1935		
	5*9		0.74	110	63V	10	5*11.5	1.2	180	
47	5*11.5		0.57	250		10	5*9	1.23	170	
	5*9		0.64	240		22	6.3*11.5	0.95	230	
100	6.3*11.5		0.25	340			8*9	0.92	210	
	6.3*9		0.3	320		33	6.3*11.5	0.34	280	
220	8*11.5		0.13	671			8*9	0.36	270	
	8*9	0.15	580	47		8*11.5	0.295	360		
330	8*16	0.08	858			10*9	0.28	350		
470	10*16	0.069	1241	56		8*11.5	0.23	450		
680	10*20	0.042	1406	68	8*12	0.16	488			
1000	10*20	0.035	1922	220	12.5*20	0.045	1145			
1500	12.5*25	0.028	2234	330	12.5*25	0.041	1551			
35V	10	5*11.5	1.3	130	100V	6.8	5*11.5	1.4	64	
	22	5*11.5	0.75	200		6.8	6.3*9	1.35	50	
	33	5*11.5	0.57	215		10	6.3*11.5	0.96	118	
	47	5*11.5	0.55	260			8*9	0.95	108	
	100	6.3*11.5	0.28	370		22	8*11.5	0.03	257	
		8*9	0.3	350			10*9	0.034	236	
	150	8*11.5	0.15	663		33	8*16	0.027	300	
	220	8*16	0.088	840						

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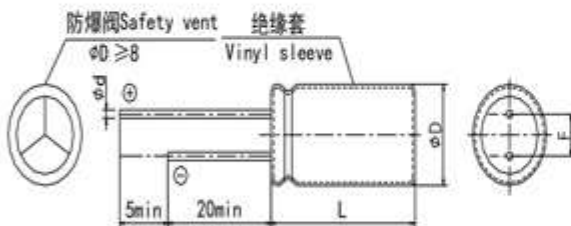
Ratings for CD11LE Series

Surge Voltage	Rated Capacitance	Size	Max Imp 20°C 100KHZ	Ripple (100KHZ 105°)
V	uF	mm*mm	(Ω)	mA
100V	47	10*12.5	0.18	341
	68	10*16	0.11	411
	100	12.5*20	0.11	596
	150	12.5*25	0.063	800

◆ Frequency Coefficient

WV(Vdc)	Freq (Hz)			
	120	1K	10K	100K
6.3-16	0.50	0.80	0.90	1.00
25~100	0.70	0.90	0.95	1.00
160~450	0.50	0.80	0.90	1.00

◆ Dimensions



◆ Temperature Coefficient

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

D	±0.5					±1.0						
	5	6.3	8			10			12.5			
L=2.0-4	11	11	9	11	16	20	9	12.5	16	20	20	25
F±0.5	2	2.5	3.5			5						
d±0.1	0.5		0.6									