

CD11RE



- Specially designed for LED driver . Standard product .
- Load life 5000-6000 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	6.3~450Vdc							
Load Life	φ5;φ6.3 3000hours;≥φ8 5000hours							
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			I≤0.02CV+10μA		V:Rated voltage(v) (at25°C after		
Dissipation factor(tanδ)	Rated voltage(Vdc)	10	16	25	35	50	63	100
(at 25°C 120HZ)	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 3000hours;≥φ8 5000hours 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 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						

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Ratings for CD11RE Series

Surge Voltage	Rated Capacitance	Size	Max Imp 20°C 100KHZ	Ripple (100KHZ 105°)
V	uF	mm*mm	(Ω)	mA
10V	150	5*11.5	0.55	201
	330	5*11.5	0.19	303
	470	6.3*11.5	0.16	371
	560	8*11.5	0.15	411
	1000	8*20	0.068	712
		10*16	0.065	773
	1500	10*16	0.049	1498
16V	220	6.3*11.5	0.18	523
	330	6.3*11.5	0.15	562
	470	8*11.5	0.095	894
	560	8*16	0.078	1012
	680	10*12.5	0.069	1423
		8*16	0.063	1321
	1000	8*20	0.049	1596
10*16		0.043	1678	
25V	10	5*11.5	1.32	130
	22	5*9	0.88	110
	33	5*11.5	0.068	220
		5*9	0.066	110
	47	5*11.5	0.058	250
		5*9	0.065	240
	100	6.3*11.5	0.029	340
		6.3*9	0.031	320
	220	8*11.5	0.16	671
		8*9	0.14	580
	330	8*16	0.09	858
	470	10*16	0.069	1241
	680	10*20	0.048	1406
	1000	10*20	0.045	1922
	1500	12.5*25	0.03	2234
35V	10	5*11.5	1.4	130
	22	5*11.5	0.85	200
	33	5*11.5	0.65	215
	47	5*11.5	0.4	260
	100	6.3*11.5	0.28	370
		8*9	0.23	350
	150	8*11.5	0.17	663
	220	8*16	0.09	840

Surge Voltage	Rated Capacitance	Size	Max Imp 20°C 100KHZ	Ripple (100KHZ 105°)	
V	uF	mm*mm	(Ω)	mA	
35V	330	10*16	0.06	1239	
	470	10*20	0.048	1421	
	680	12.5*20	0.042	1912	
	1000	12.5*25	0.034	2215	
		10	5*11.5	0.92	150
50V	10	5*9	0.95	130	
		5*11.5	0.78	190	
	22	5*9	0.69	175	
		5*11.5	0.56	250	
	33	6.3*9	0.62	235	
		6.3*11.5	0.45	320	
	47	8*9	0.42	300	
		8*11.5	0.17	575	
	100	8*9	0.22	550	
		150	10*12.5	0.012	767
	220	10*16	0.087	1054	
	330	12.5*20	0.058	1451	
	470	12.5*20	0.046	1672	
	560	12.5*25	0.044	1935	
	63V	10	5*11.5	1.9	180
5*9			2.4	170	
22		6.3*11.5	1.5	230	
		8*9	1.75	210	
33		6.3*11.5	1.1	280	
		8*9	1.4	270	
47		8*11.5	0.8	360	
		10*9	0.74	350	
56		8*11.5	0.6	450	
68		8*12	0.45	488	
220		12.5*20	0.17	1145	
330		12.5*25	0.095	1551	
100V		6.8	5*11.5	2	64
			6.3*9	2.3	50
		10	6.3*11.5	1.5	118
	8*9		1.3	108	
	22	8*11.5	0.56	257	
		10*9	0.75	236	
	33	8*16	0.44	300	

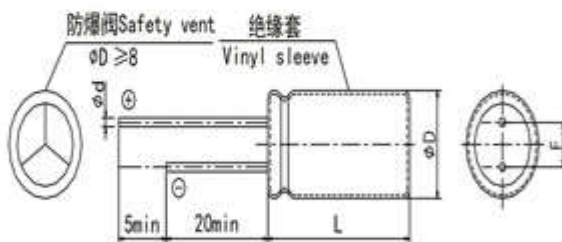
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Surge Voltage	Rated Capacitance	Size	Max Imp 20°C 100KHZ	Ripple (100KHZ 105°)
V	uF	mm*mm	(Ω)	mA
100v	47	10*12.5	0.36	345
	56	10*16	0.36	410
	68	10*16	0.28	415
	100	12.5*20	0.17	602

◆ Frequency Coefficient

WV(Vdc)	Freq (Hz)	120	1K	10K	100K
	6.3-16		0.50	0.80	0.90
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						±10					
	5	6.3	8			20	10			12.5		
L+2.0-0	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									