

CD11GR Series 105°C Long Life (超长寿命)

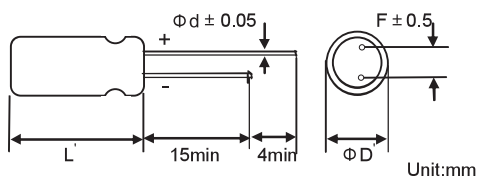
- Long Life, 16000~20000hours at 105°C (U_R, I_R applied)
- Specially designed for LED lighting power supply.
- RoHS Compliant



SPECIFICATIONS AND CHARACTERISTICS IN BRIEF

Item	Performance Characteristics						
Standard	IEC 60384-4						
Temperature Range	-40°C to +105°C (Operating) -55°C to +110°C (Storage)						
Rated Working Voltage Range U _R	160V to 450V						
Surge Voltage U _s	1.10 x U _R						
Nominal Capacitance Range	1μF to 150μF						
Capacitance Tolerance	±20%(120HZ, +20°C)						
Leakage Current I _L	= 0.02 x C _R x U _R (μA) is the smaller. Note, C _R is in μF.	Test Condition: U _R , 5mins., 20°C					
Characteristics at low Temperature	Max. impedance ratio at 120 Hz	U _R Z -25 °C / Z 20 °C	<table border="1"> <tr> <td>160V~250V</td> <td>350V~450V</td> </tr> <tr> <td>3</td> <td>6</td> </tr> </table>	160V~250V	350V~450V	3	6
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3	6						
tan δ	Working Voltage(V)	160~450					
	tan δ(max) (120HZ, +20°C)	8					
Operational Life Time +105°C, U _R , I _R	Can Diameter(mm)	End of Life Requirement:					
+105°C, U _R	8,10	16000 hrs	ΔC/C ≤ ±20%				
	12,13,16,18	20000hrs	tan δ ≤ 2 x initial tan δ value				
+105°C, U _R	8,10	19000 hrs	I _L ≤ initial specified limi				
	12,13,16,18	25000hrs					
Shelf Life +105°C	After leaving capacitors under no load at 105°C for 1000 hours, Capacitors shall meet specified value for load life characteristics listed above.						
Others	If the capacitors are stored more than 1 year, the leakage current may increase. Please apply voltage through about 1 kΩ resistor, if necessary.						

SPECIFICATIONS



ΦD	8	10	12	13	16	18	22
F	3.8	5.0	5.0	5.0	7.5	7.5	10.5
Φd	0.5	0.6	0.6	0.6	0.8	0.8	0.8
L'	L+1.5			L+2.0			
ΦD'	ΦD+0.5					ΦD+1.0	

RIPPLE CURRENT MULTIPLIER

Freq(HZ)	120	1K	10K	100K
Coefficient	1.00	1.55	1.80	2.00

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STANDARD RATINGS

Voltage (V)	160		200		250		350	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
5.6							10×10	98
6.8					10×16	133	10×16	110
8.2					10×20	169	10×20	160
10	10×16	120	10×16	120	12×20	182	13×20	189
15	10×16	168	10×20	177	12×20	190	13×20	201
22	10×20	210	10×20	212	13×20	232	13×25	224
33	10×20	258	12×20	269	13×25	280	16×25	290
47	12×20	335	13×20	335	16×20	365	16×25	348
68	13×25	448	13×25	451	16×25	476	16×30	455
100	16×25	566	16×25	579	16×30	590		
150	16×30	620	16×30	662				

Maximum Allowable Ripple Current (mA rms) at 105°C 120HZ

Case Size ΦD×L(mm)

Voltage (V)	400		450					
	Case Size	Ripple Current	Case Size	Ripple Current				
1	8×12	19						
1.5	8×12	36						
1.8	8×12	38						
2.2	8×16	38	8×16	40				
2.8	8×16	42	8×16	44				
3.3	10×16	55	10×16	57				
4.7	10×20	82	10×20	88				
5.6	10×20	99	10×20	101				
6.8	10×20	106	10×20	107				
8.2	10×20	112	12×20	117				
10	12×20	133	13×20	141				
15	13×20	148						
22	13×25	202						
33	13×25	301						
47	16×25	398						
68	18×30	487						

Maximum Allowable Ripple Current (mA rms) at 105°C 120HZ

Case Size ΦD×L(mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.