

# CD11GS Series 105°C Long Life (长寿命)

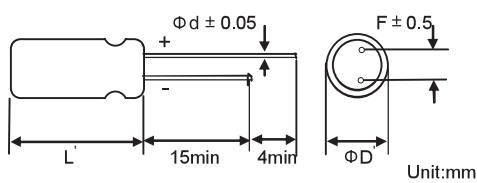
- Long Life, 5000~6000 hours at 105°C (U<sub>R</sub>, I<sub>R</sub> applied)
- Small in sizes
- Specially designed for LED lighting power supply.
- RoHS Compliant



## 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 <sub>R</sub>	250V to 450		
Surge Voltage U <sub>s</sub>	1.10 x U <sub>R</sub>		
Nominal Capacitance Range	2.2μF to 100 μF		
Capacitance Tolerance	±20%(120HZ, +20°C)		
Leakage Current I <sub>L</sub>	= 0.02x C <sub>R</sub> x U <sub>R</sub> (μA) is the smaller. Note, C <sub>R</sub> is in μF.	Test Condition: U <sub>R</sub> , 5mins., 20°C	
Characteristics at low Temperature	Max. impedance ratio at 120 Hz	U <sub>R</sub> Z -25 °C / Z 20 °C	250V    350V~450V 3            6
tan δ	Working Voltage(V)	250~450	
	tan δ(max) (120HZ, +20°C)	8	
Operational Life Time +105°C, U <sub>R</sub> , I <sub>R</sub>	Can Diameter(mm) 8 10, 13    5000 hrs 16, 18    6000hrs	End of Life Requirement: ΔC/C    ≤ ±20% tan δ    ≤ 2 x initial tan δ value I <sub>L</sub> ≤ initial specified limi	
+105°C, U <sub>R</sub>	8, 10, 13    8000 hrs 16, 18    10000hrs		
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
F	3.8	5.0	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.6	0.8	0.8
L'	L+1.5			L+2.0		
ΦD'	ΦD+0.5					

## 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)	250		400		450			
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
2.2			8×11	39	8×11	41		
3.3			8×12	46	8×12	50		
4.7			8×16	58	10×10	62		
5.6	8×11	54	10×12	62	10×12	77		
6.8	8×14	60	10×14	81	10×14	83		
8.2	8×16	64						
10	10×15	77	10×17	107	10×20	122		
15	10×15	86	10×20	126				
22	10×20	120	13×17	172	16×17	180		
33	13×17	179	16×17	216	16×20	220		
47	16×17	264	18×20	288				
56	16×20	357						
68	16×20	442	18×25	476				
82	16×20	519						
100	18×20	601						

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.