

# CD11GH Series 105 °C Long Life (长寿命)

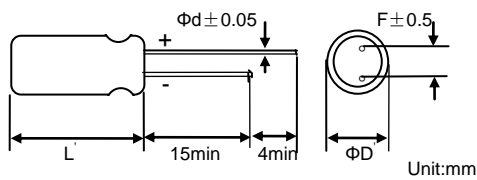
- Long Life,5000 ~6000hours at 105°C (U<sub>R</sub>,I<sub>R</sub> applied)
- For electronic ballast, power supply
- RoHS Compliant



## 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>	160 to 500V			
Surge Voltage U <sub>s</sub>	1.10 x U <sub>R</sub>			
Nominal Capacitance Range	1 to 150μF			
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	160V~250V 3	350V~450V 6
tan δ	Working Voltage(V)	160~450	500	
	tan δ(max) (120HZ, +20°C)	8	10	
Operational Life Time +105°C, U <sub>R</sub> , I <sub>R</sub>	Can Diameter(mm)	8	5000 hrs	End of Life Requirement: ΔC/C ≤ ±20% tan δ ≤ 2 x initial tan δ value I <sub>L</sub> ≤ initial specified limi
		10,12,13,16,18	6000hrs	
+105°C, U <sub>R</sub>		8	8000 hrs	
		10,12,13,16,18	8000hrs	
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	3.5	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
4.7							10×14	69
5.6							10×14	83
6.8					10×16	117	10×16	120
8.2					10×16	128	10×16	133
10	10×16	139	10×16	139	10×16	148	10×20	152
15	10×20	158	10×16	158	10×20	161	10×20	188
22	10×20	215	10×20	217	10×20	221	12×20	244
33	10×20	298	10×20	322	12×20	343	13×25	348
47	10×20	322	12×20	398	12×20	401	16×20	422
68	12×20	481	12×25	497	16×20	512	16×25	527
100	13×25	616	16×20	662	16×25	688		
150	16×25	801	16×25	900	18×25	926		

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

Case Size ΦD×L(mm)

Voltage (V)	400		450		500			
	Case Size	Ripple current	Case Size	Ripple current	Case Size	Ripple current		
1	8×12	29	8×12	29				
1.5	8×12	32	8×12	32				
1.8	8×12	33	8×12	33				
2.2	8×12	42	8×12	43				
2.8	8×16	45	8×12	46				
3.3	10×16	77	8×16	79				
4.7	10×16	92	8×16	112	10×20	120		
5.6	10×16	122	10×14	130	10×20	146		
6.8	10×20	139	10×14	144	10×20	167		
8.2	10×20	144	10×16	163	10×20	182		
10	12×20	172	10×20	198	12×20	208		
15	12×20	234	12×20	265				
22	12×25	301	13×20	353				
33	13×25	399						
47	16×20	501						
68	16×25	685						

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.