

## CD11GL Series

Load Life: 105°C 6000 hours

### ◆ FEATURES

- Miniaturized, Long life, high reliability.
- Special for LED lighting driver.
- RoHS compliance



### ◆ SPECIFICATIONS

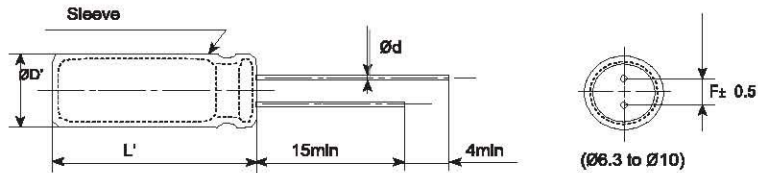
Items	Characteristics						
Category Temperature Range	-40 ~ +105℃						
Rated Voltage Range	160~450V.DC						
CapacitanceTolerance	±20% ( 20℃ , 120Hz)						
Leakage Current	$I \leq 0.02CV + 10 \mu A$ (2 minutes) $I$ =Leakage Current $C$ = Rated Capacitance (μF) $V$ = Rated Voltage (V)						
Dissipation Factor (tan δ)	<table><tr><td>Rated Voltage (V)</td><td>160~400</td><td>450</td></tr><tr><td>tan δ</td><td>0.15</td><td>0.16</td></tr></table> (20℃ , 120HZ)	Rated Voltage (V)	160~400	450	tan δ	0.15	0.16
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Low Temperature Characteristics Imp edanceRa tio (MAX)	<table><tr><td>Rated Voltage (V)</td><td>160~250</td><td>400~450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>3</td><td>6</td></tr></table> (120HZ)	Rated Voltage (V)	160~250	400~450	Z(-25℃)/Z(+20℃)	3	6
Rated Voltage (V)	160~250	400~450					
Z(-25℃)/Z(+20℃)	3	6					
Endurance	<p>The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to rated DC voltage and rated ripple current at 105℃ after 6000 hours</p> <table><tr><td>Capacitance Change</td><td>Within ±30% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 300% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table>	Capacitance Change	Within ±30% of the initial value.	Dissipation Factor	Not more than 300% of the specified value.	Leakage Current	Not more than the specified value.
Capacitance Change	Within ±30% of the initial value.						
Dissipation Factor	Not more than 300% of the specified value.						
Leakage Current	Not more than the specified value.						
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied.</p> <table><tr><td>Capacitance Change</td><td>Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than 200% of the specified value.</td></tr></table>	Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than 200% of the specified value.
Capacitance Change	Within ±20% of the initial value.						
Dissipation Factor	Not more than 200% of the specified value.						
Leakage Current	Not more than 200% of the specified value.						

### ◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency Hz		120	1K	10K	100K
Coefficient	160~450 V	0.5	0.8	0.9	1.0

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### ◆ DIMENSIONS [mm]



ØD	6.3	8	10	12~13
Ød	0.5	0.5	0.6	0.6
F	2.5	3.5	5.0	5.0
ØD'	ØD+0.5max.			
L'	L+2max.			

### ◆ STANDARD RATINGS

WV(V.DC) Cap(µF)	160V		200V		250V	
	Size	Ripple Current	Size	Ripple Current	Size	Ripple Current
1	5×10 6.3×10	25 35	5×12 6.3×10	32 40	5×12 6.3×10	34 44
2.2	5×11 6.3×10	56 60	5×12 6.3×10 6.3×12	58 70 72	6.3×10 6.3×12	72 75
2.7	6.3×10 6.3×12	65 70	6.3×10 6.3×12	74 80	6.3×10 6.3×12	76 82
3.3	6.3×10 6.3×12	70 78	6.3×10 6.3×12	78 84	6.3×10 6.3×12	80 86
4.7	6.3×10 6.3×12	76 85	6.3×10 6.3×12	84 90	6.3×12 8×10	92 98
5.6	6.3×12 8×10	90 100	6.3×12 8×10 8×12	95 112 120	6.3×12 8×10 8×12	98 115 125
6.8	8×10 8×12	96 110	8×10 8×12	125 135	8×10 8×12 8×16	128 138 142
8.2	8×10 8×12	115 135	8×10 8×12	132 150	8×10 8×12 8×16	135 155 160
10	8×10 8×12	135 150	8×12 8×16	155 160	8×14 8×16 10×13	168 175 180
15	8×16 10×13	175 220	8×16 10×13	180 226	8×20 10×13 10×17	200 250 260
22	8×20 10×17	230 280	8×20 10×17	240 298	10×17 10×20	330 380
33	10×20 12×18	420 440	10×20 12×18	440 450	12×20 13×18	480 520

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### ◆ STANDARD RATINGS

WV(V.DC) Cap(μF)	400V		450V	
	Size	Ripple Current	Size	Ripple Current
1	5× 12	40	6.3× 10 6.3× 12	45
	6.3× 10	44		50
	6.3× 12	48		
1.2	6.3× 10	44	6.3× 10 6.3× 12 8× 10	46
	6.3× 12	50		52
	8× 10	56		60
1.5	6.3× 10	50	6.3× 12 8× 10	55
	8× 10	60		65
1.8	6.3× 10	56	6.3× 12 8× 10	60
	8× 10	66		70
2.2	6.3× 10	66	6.3× 12 8× 10 8× 12	70
	8× 10	72		80
	8× 12	80		84
2.7	6.3× 12	76	8× 10 8× 12 8× 16	85
	8× 10	80		90
	8× 12	86		95
3.3	6.3× 12	80	8× 10 8× 12 8× 16	92
	8× 10	88		96
	8× 12	94		100
3.9	8× 10	94	8× 12 8× 16 10× 13	98
	8× 12	114		108
	8× 16	118		120
4.7	8× 10	100	8× 16 10× 13 10× 17	105
	8× 12	122		125
	10× 13	130		135
6.8	8× 20	150	8× 20 10× 13 10× 17	150
	10× 13	155		160
	10× 17	170		170
8.2	10× 13	160	10× 17 10× 20	175
	10× 17	180		195
10	10× 17	190	10× 20 12× 18	200
	10× 20	200		240
15	10× 20	250	10× 30 12× 18	270
	12× 18	290		310
22	13× 18	320	10× 40 13× 21	350
	13× 21	370		400