



# Conductive Polymer Aluminum Solid Capacitor DR Cap

**GL**series

■ **Features**

- Higher Capacitance
- High voltage
- Guaranteed at 125°C for 1500 hrs.

■ **Applications**

- SPS
- LED lighting , LED TV
- RoHS compliance and lead-free

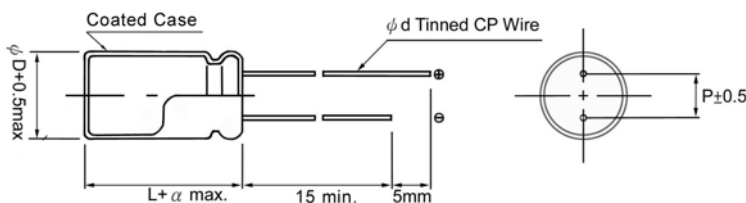


## Specifications

Items	Characteristics		
Category Temperature Range	-55 ~ +125°C		
Rated Working Voltage Range	25 ~ 63Vdc		
Capacitance Tolerance	±20% (M) ( 120Hz , 20°C )		
Surge Voltage	x 1.15		
DC Leakage Current	I=0.2 CV (After rated voltage applied for 2 minutes)		
Dissipation Factor ( tanδ )	0.12 max for diameter 8mm / 0.15 max. for diameter 10mm (at 20°C, 120 Hz)		
ESR (100 K~300 KHz, 20°C)	Value in characteristics table		
Temperature Characteristic Impedance Ratio at 100 KHz	-25°C	Z / Z <sub>20°C</sub>	1.15
	-55°C	Z / Z <sub>20°C</sub>	1.25
Load Life (After 125°C, 1500 hrs, rated voltage applied)	Capacitance change	Within ±30% of the initial measured value	
	Dissipation Factor	Less than 300% of the specified value	
	ESR	Less than 300% of the specified value	
	Leakage Current	Less than the specified value	
Moisture Resistance (After 60°C, 90~95%RH, 1000 hrs, no voltage)	Capacitance change	Within ±20% of the initial measured value	
	Dissipation Factor	Less than 150% of the specified value	
	ESR	Less than 150% of the specified value	
	Leakage Current	Less than the specified value	

\* Leakage Current should be tested after voltage treatment.

## Dimensions (mm)



Size Code	ϕ D	L	α	P	ϕ d
<b>E08 8</b>		<b>8</b>	<b>1.0</b>	<b>3.5</b>	<b>0.6</b>
<b>E12 8</b>		<b>12</b>	<b>1.5</b>	<b>3.5</b>	<b>0.6</b>
<b>F12 10</b>		<b>12</b>	<b>1.5</b>	<b>5.0</b>	<b>0.6</b>



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## Table GL series Characteristics List

Rated Voltage (V)	Nominal Capacitance (120Hz, 20°C) (μF)	Size Code	φD	L	ESR (100K~300KHz) (mΩ) (max)	Max Ripple Current (100KHz) (mA rms)		Part Number
						105<Tx≤125°C	Tx≤105°C	
25	330	E12	8	12	25	1077	2800	DRGL0330M25E12
	470	E12	8	12	25	1077	2800	DRGL0470M25E12
35	100	E12	8	12	33	1077	2800	DRGL0100M35E12
	220	E12	8	12	33	1077	2800	DRGL0220M35E12
	220	F12	10	12	30	1095	3650	DRGL0220M35F12
	330	F12	10	12	30	1095	3650	DRGL0330M35F12
50	56	E12	8	12	32	960	2480	DRGL0056M50E12
	220	F12	10	12	30	1080	2800	DRGL0220M50F12
63	33	E12	8	12	36	900	2320	DRGL0033M63E12
	100	E12	8	12	36	950	2460	DRGL0100M63E12
	180	F12	10	12	29	1060	2670	DRGL0180M63F12

### Frequency coefficient for ripple current

Frequency	100Hz ≤ f < 1 KHz	1 KHz ≤ f < 10 KHz	10 KHz ≤ f < 100 KHz	100 KHz ≤ f ≤ 500 KHz
Coefficient	0.05	0.3	0.7	1.0