

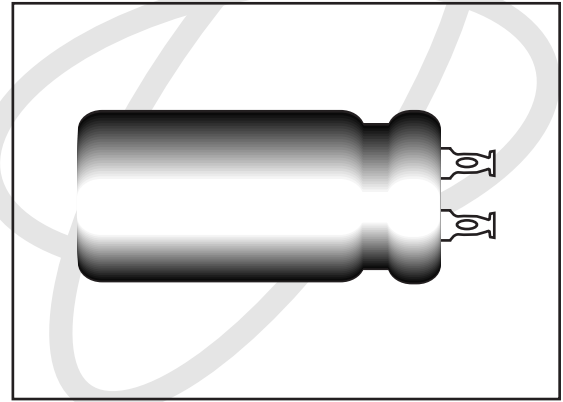
# LG Lug Terminal

Long-Life | Low-ESR | High-Reliability | Bipolar | Low-Leakage

125°C  
105°C  
85°C

## Specifications

- Capacitance Range 22μF to 10,000μF
- Voltage Range 16V to 450Vdc
- Tolerance 20% standard
- Climatic Category 40/105/21 (25/85/21, ≥160V)
- Leakage Current 0.03CV + 50μA or 5000μA
- Load-life 2000 hours at 105°C (85°C, ≥160V)
- Solder lug terminals for wire attachment
- For switching power supplies and industrial applications
- Meets JIS-5141 condition H



## Dimensions

V(dc)	16V	25V	35V	50V	63V	100V	160V	200V	250V	350V	400V	450V
	1C	1E	1V	1H	1J	2A	2C	2D	2E	2V	2G	2W
	(20V)	(32V)	(44V)	(63V)	(75V)	(120V)	(200V)	(250V)	(300V)	(400V)	(450V)	(500V)
μF	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm	øxl/mm
22												22 x 41
33												25 x 51
47											25 x 41	25 x 51
100									25 x 51	25 x 51	30 x 51	30 x 61
150									25 x 51	25 x 51	30 x 51	30 x 61
220							25 x 51	30 x 51	30 x 51	35 x 61	35 x 81	35 x 81
330							30 x 51	30 x 61	35 x 61	35 x 81	40 x 81	
470					22 x 31	22 x 31	30 x 61	35 x 61	35 x 81	40 x 81		
680					22 x 31	22 x 31	35 x 61	40 x 61	40 x 81			
1000			22 x 31	22 x 31	22 x 31	22 x 41	35 x 81					
1500			22 x 31	22 x 31	22 x 31	22 x 41						
2200	22 x 31	22 x 31	22 x 41	22 x 41	22 x 41	30 x 51						
3300	22 x 31	22 x 41	25 x 41	25 x 51	30 x 51	30 x 51						
4700	22 x 41	22 x 41	25 x 51	30 x 51	30 x 51	40 x 61						
6800	25 x 41	22 x 51	30 x 51	35 x 51	35 x 61	40 x 81						
10000	25 x 51	30 x 51	30 x 61	35 x 61	40 x 61							

## Ordering Information

<b>IG</b>	<b>472</b>	<b>M</b>	<b>3051</b>	<b>1H</b>	<b>C</b>
Range	Cap	Tol	Case Size	Voltage Code	Options :
		M = 20% K = 10%	Dia x Length	See range Table above	
	Capacitance is in microfarad code:- two significant digits followed by number of zeros: e.g. 101 = 100μF 472 = 4700μF		(e.g. 3051 is 30 x 51)		C=With mounting clamp
					Other case sizes and values available - see web site for updates



### Ripple Current

V(dc)	16V 1C	25V 1E	35V 1V	50V 1H	63V 1J	100V 2A	160V 2C	200V 2D	250V 2E	350V 2V	400V 2G	450V 2W
μF												
22												100
33												200
47											200	200
100									400	400	400	500
150									500	600	600	600
220							600	700	700	800	800	900
330							900	900	1000	1100	1100	
470					600	800	1200	1200	1300	1500		
680					800	1100	1600	1700	1800			
1000			500	800	1100	1400	2200					
1500			800	1100	1500	1800						
2200	700	1000	1300	1600	1700	2400						
3300	1000	1400	1800	2100	2300	2800						
4700	1500	1900	2000	2600	2800	3700						
6800	2000	2400	2700	3000	3200	5100						
10000	2400	2900	3200	4400	4900							

Ripple current / mA max @100/120Hz  
upto 100V; @105°C, over 160V; 85°C

### Ripple Current Coefficient of Frequency

Frequency / Hz Multiplier	50/60	100/120	1k	10k
16 – 100V	0.90	1.00	1.20	1.25
160 – 250V	0.95	1.00	1.20	1.25
350 – 450V	0.98	1.00	1.15	1.20

### Ripple Current Coefficient of Temperature

°C	Factor
+45	2.80
+65	2.50
+85	1.70
+105	1.00



Rated life can be increased by reduction in temperature and ripple current. Between 105°C and 45°C load-life effectively doubles for every 10° reduction in temperature. Higher ripple currents than indicated by the above table must not be allowed. The capacitor may be permanently damaged and effective life shortened.

### Tan δ

Working Voltage	16-25	35	50-250	350-450
Tan δ max	0.35	0.25	0.20	0.25

Add 0.02 per 1000μF for more than 1000μF

