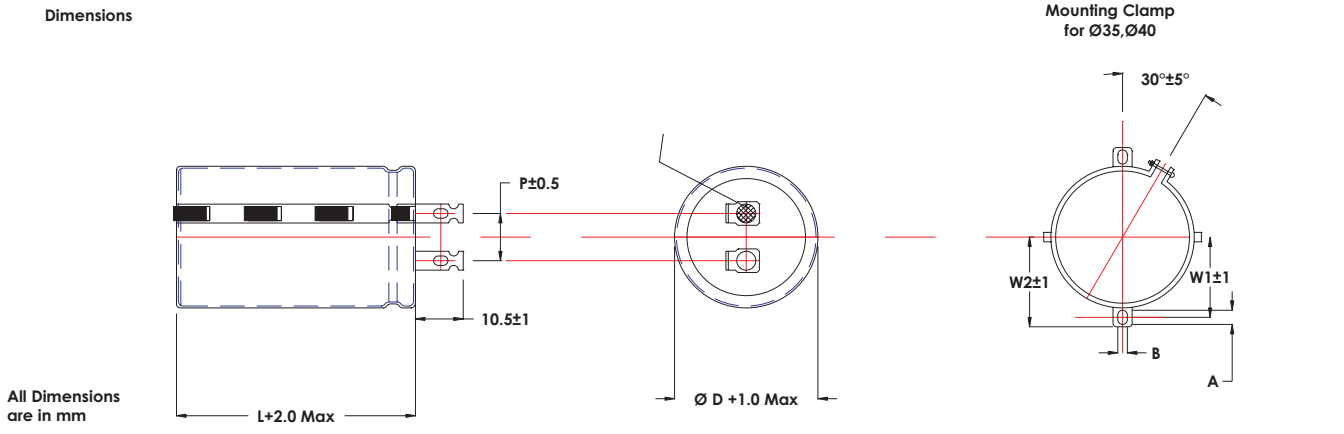
PLG SERIES - Lug Terminal, General Purpose, 85°C

- Minimum Continuous Load Life: 2000 hours at 85°C
- For Power Supplies, Inverters, SMPS
- Lug Terminals
- Bottom Vent for Safety

SPECIFICATIONS

	Parameter	Performance				
1	Operating Temperature Range	- 25° C ~ 85° C				
2	Rated Voltage Range	16 V to 450 V				
3	Capacitance Tolerance	± 20%				
4	Leakage Current (Max) - Apply Rated Voltage for 5 minutes before test	I = 0.02 CV or 5 mA, whichever is smaller				
		I = Leakage Current; C= Rated Capacitance; V = Rated Working Voltage				
5	Dissipation Factor (%, max at 100 Hz)	µF Vdc	16-25	35-63	100-250	350-450
		220-330			20	25
		470-3300		20	20	
		4700-6800	30	30	25	
		10000-22000	35	30		
		33000-68000	75	50		
6	Temperature Characteristics Impedance Ratio (max)	Vdc	160-200	250	350	400	450
		$Z_{-25°C}/Z_{20°C}$	4	4	4	4	8
7	Endurance	After 2000 Hours Life at 85°C with Rated Voltage and Ripple Current the DUT will meet the following conditions				
		Capacitance Change	Within + 20% of initial value			
		Leakage Current	Less than the specified value			
		Dissipation Factor	Less than 200% of specified value			
8	Shelf Life	After 1000 Hours Shelf Life at 85° C and thereafter pre-treatment as per IEC 384-1 the DUT will meet the following conditions				
		Capacitance Change	Within + 20% of initial value			
		Leakage Current	Less than the specified value			
		Dissipation Factor	Less than 200% of specified value			
9	Other Details	As per IEC 384-4				

Dimensions and PCB Footprint



PLG Series Selection Guide: Can Sizes and Ripple Current Ratings

Vdc / µF	16V		25V		35V		50V		63V		100V	
	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple
220												
330												
470												
680												
1000												
1500												
2200												
3300											30x50	2.7
4700											35x50	3.1
6800									30x50	3.2	40x60	3.6
10000							30x50	3.8	35x50	4.0	40x80	4.5
15000					30x50	4.2	35x50	4.2	35x80	4.5		
22000			30x50	4.4	35x50	4.5	40x60	4.8				
33000	30x50	4.7	35x50	5.0	35x50	5.4						
47000	35x50	5.2	40x60	6.0								
56000	35x50	5.6										
68000	40x60	6.0										

Vdc / µF	200V		250V		350V		400V		450V			
	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple		
220									30x50	0.95		
330							30x50	1.0	35x50	1.1		
470					30x50	1.4	35x50	1.2	40x60	1.3		
680			30x50	1.7	35x50	1.6	40x60	1.5				
1000	30x50	2.0	35x50	2.3	40x60	1.8						
1500	35x50	2.2	40x60	2.5								
2200	40x60	2.5										
3300												
4700												
6800												
10000												
15000												
22000												
33000												
47000												
56000												
68000												

Mulitpliers Table for Ripple Current Specification

Parameter	50 Hz	100 Hz	1K Hz	10K Hz	105°C	85°C	65°C
Coefficient	0.8	1.0	1.3	1.5	1.0	1.7	2.1

Abbreviations Used:- D: Diameter in mm, L: Length of Aluminum Case in mm
Ripple Current: Maximum Rating, in Amperes at rated Operating Temperature and rated Maximum Operating Voltage