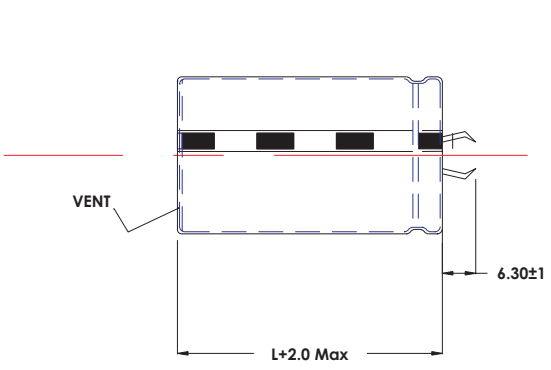
P3S SERIES - Low Profile, General Purpose, 85°C

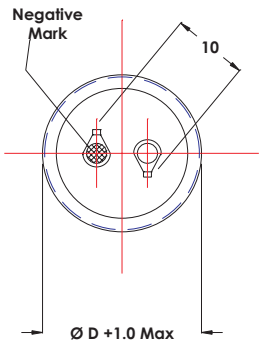
- Low profile: Aluminum Can Height of 20mm
- Minimum Continuous Load Life: 2000 hours at 85°C
- For Power Supplies, Inverters, SMPS
- Snap-in Terminals
- Top Vent for Safety

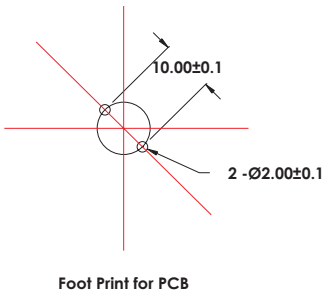
SPECIFICATIONS

	Parameter	Performance					
1	Operating Temperature Range	-25°C ~ 85°C					
2	Rated Voltage Range	160 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)	Vdc	160-200	250	350	400	450
		Max Rating	15	15	15	15	20
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







All Dimensions are in mm

P3S Series Selection Guide: Can Sizes and Ripple Current Ratings

Vdc / μF	160V		200V		250V		350V		400V		450V	
	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple	DxL	Ripple
47							22x20	0.35	22x20	0.30	25x20	0.35
100			22x20	0.50	22x20	0.45	30x20	0.55	30x20	0.55	35x20	0.65
150			22x20	0.65	25x20	0.70	30x20	0.70	35x20	0.75		
220	22x20	0.63	25x20	0.80	30x20	0.85						
330	25x20	0.90	30x20	1.00	35x20	1.00						
470	30x20	1.15	35x20	1.30								
1000												
1500												
2200												

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