

PCX SERIES - Screw Terminal, Long Life, 105°C

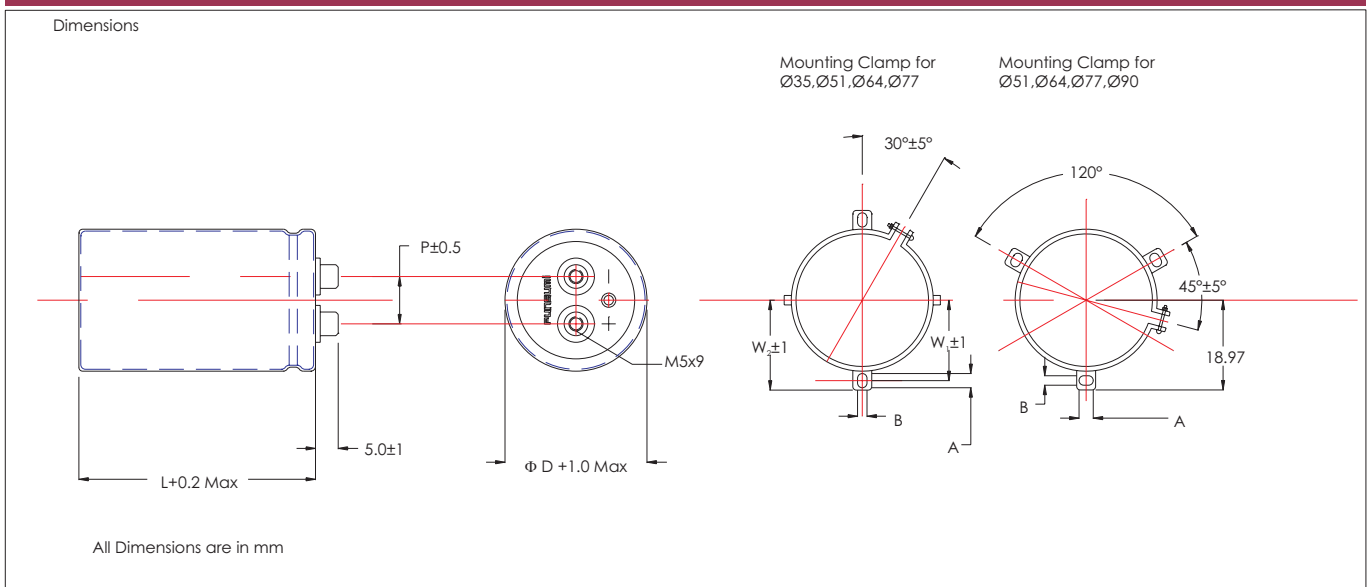
- Minimum Continuous Load Life: 2000 hours at 105°C
- For Inverters
- Screw Terminals



SPECIFICATIONS

	Parameter	Performance					
1	Operating Temperature Range	- 25° C ~ 105° 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 100Hz)	Please See Tables on Next Page					
6	Temperature Characteristics Impedance Ratio (max)	Vdc	16	25-35	50-100	160-400	450
		Z _{-25°C} / Z _{20°C}	4	3	2	4	8
7	Endurance	After 2000 Hours Life at 105°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 105°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



PCX Series Selection Guide: Can Sizes, Ripple Current Ratings and Dissipation Factor

Vdc μF	160V			200V			250V		
	DxL	Ripple	D.F.	DxL	Ripple	D.F.	DxL	Ripple	D.F.
330				36x50	0.8	0.15	36x50	0.80	0.15
470				36x50	1.1	0.15	36x50	1.00	0.15
560	36x50	1.1	0.15	36x50	1.2	0.15	36x50	1.10	0.15
680	36x50	1.2	0.15	36x50	1.20	0.15	36x80	1.30	0.15
820	36x50	1.3	0.15	36x50	1.30	0.15	36x80	1.50	0.15
1000	36x50	1.5	0.15	36x80	1.50	0.15	36x80	1.50	0.20
1200	36x50	1.70	0.15	36x80	1.70	0.15	36x80	1.60	0.20
1500	36x80	1.90	0.15	36x80	2.10	0.15	51x80	1.90	0.20
1800	36x80	2.30	0.15	36x80	2.30	0.15	51x80	2.30	0.20
2200	36x80	2.50	0.15	51x80	2.70	0.15	51x80	2.60	0.20
2700	51x80	3.00	0.15	51x80	3.30	0.15	51x100	3.20	0.20
3300	51x80	3.50	0.15	51x80	3.70	0.15	51x115	3.80	0.20
3900	51x80	3.50	0.20	51x100	4.50	0.15	51x115	4.20	0.20
4700	51x100	4.20	0.20	64x100	4.80	0.20	64x115	5.20	0.20
5600	51x100	4.60	0.20	64x100	5.30	0.20	64x115	5.70	0.20
6800	51x115	5.60	0.20	64x115	6.30	0.20	77x115	7.00	0.20
8200	64x100	6.40	0.20	64x115	6.90	0.20	77x115	7.60	0.20
10000	64x115	7.60	0.20	77x115	8.50	0.20	77x130	9.10	0.20
12000	77x100	8.60	0.20	77x115	9.30	0.20	90x130	10.80	0.20
15000	77x115	10.30	0.20	77x130	11.10	0.20			
18000	77x130	12.20	0.20	90x130	11.90	0.25			
22000	90x130	13.20	0.25						

WV μF	350V			400V			450V		
	DxL	Ripple	D.F.	DxL	Ripple	D.F.	DxL	Ripple	D.F.
180	36x50	0.7	0.10	36x50	0.7	0.10	36x50	0.7	0.15
220	36x50	0.8	0.10	36x50	0.8	0.10	36x60	0.8	0.15
270	36x50	0.9	0.10	36x50	0.9	0.10	36x60	0.9	0.15
330	36x50	1.0	0.10	36x50	1.1	0.10	36x80	1.0	0.15
390	36x50	1.2	0.10	36x80	1.2	0.10	36x80	1.1	0.15
470	36x80	1.3	0.10	36x80	1.3	0.10	51x80	1.2	0.15
560	36x80	1.5	0.10	36x80	1.3	0.15	51x80	1.2	0.20
680	36x80	1.5	0.15	51x80	1.5	0.15	51x80	1.4	0.20
820	51x80	1.6	0.15	51x80	1.8	0.15	51x80	1.7	0.20
1000	51x80	2.0	0.15	51x80	2.0	0.15	51x100	1.9	0.20
1200	51x80	2.2	0.15	51x100	2.5	0.15	51x115	2.4	0.20
1500	51x100	2.7	0.15	51x115	3.0	0.15	64x100	2.9	0.20
1800	51x115	3.3	0.15	51x115	3.2	0.15	64x100	3.0	0.20
2200	51x115	3.6	0.15	64x100	3.8	0.15	64x115	3.6	0.20
2700	64x100	4.2	0.15	64x100	4.2	0.15	77x115	4.0	0.20
3300	64x100	5.2	0.15	64x115	5.0	0.15	77x130	4.8	0.20
3900	77x115	6.1	0.15	77x130	5.8	0.15	77x130	5.6	0.20
4700	77x115	7.2	0.15	77x130	6.9	0.15	77x155	6.6	0.20
5600	77x130	7.6	0.15	77x130	8.6	0.15	90x130	9.0	0.20
6800	77x130	8.6	0.15	90x130	9.5	0.15			
8200	90x130	10.0	0.15						

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