

Types 381L, 383L, 381LX & 383LX 105 °C High-Ripple Snap-In

2-pin Types: 381L and 381LX. 4-pin or 5-pin Types: 383L and 383LX

[查询"381LX682M016K202"供应商](#)



Adding longer-life and more ripple capability to the excellent value of Type 380L/LX capacitors, the 381L/LX readily handles tough switching power supply input and output circuits and motor-drive bus capacitor applications where the high surface area of multiple units in parallel equals the ripple capability of our Type 520C inverter-grade capacitor. Type 381LX delivers more capacitance per can size while Type 381L gives lower ESR for the same capacitance rating. Type 383L gives the choice of 4 or 5 leads for stable, reverseproof mounting. Type 383LX has 5 leads available.

Highlights

- Top performance in power supplies and motor drives
- 4 times the life of Type 380L/LX
- 2, 4 and 5 leads available
- Big selection of 42 case sizes

Specifications

Operating Temperature:	–40 °C to +105 °C up to 315 Vdc, –25 °C 350 Vdc and up
Rated Voltage:	10 to 450 Vdc
Capacitance:	33 µF to 150,000 µF ±20%
Leakage Current:	$\leq 3\sqrt{CV}$ µA

Ripple Current Multipliers:

Ambient Temperature

	45 °C	60 °C	70 °C	85 °C	105 °C
381L	2.70	2.60	2.50	2.10	1.00
381LX, 383 LX	2.35	2.20	2.00	1.70	1.00

Frequency

	50 Hz	60 Hz	120 Hz	500 Hz	1 kHz	5 kHz & up
10-100 Vdc	0.93	0.95	1.00	1.05	1.08	1.15
160-450 Vdc	0.75	0.80	1.00	1.20	1.25	1.40

EIA Ripple Life:

12,000 h @ 85 °C, Full load as per EIA IS-749

ΔCapacitance ±20%

ESR 200% of limit

DCL 100% of limit

Load Life Test:

3,000 h @ 105 °C, Full load

ΔCapacitance ±10%

ESR 125% of limit

DCL 100% of limit

Shelf Life:

1,000 h @ 105 °C

ΔCapacitance ±20%

DF 200% of limit

DCL 100% of limit

Vibration:

10 to 55 Hz, 0.06" and 10 g max, 2 h in each plane



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

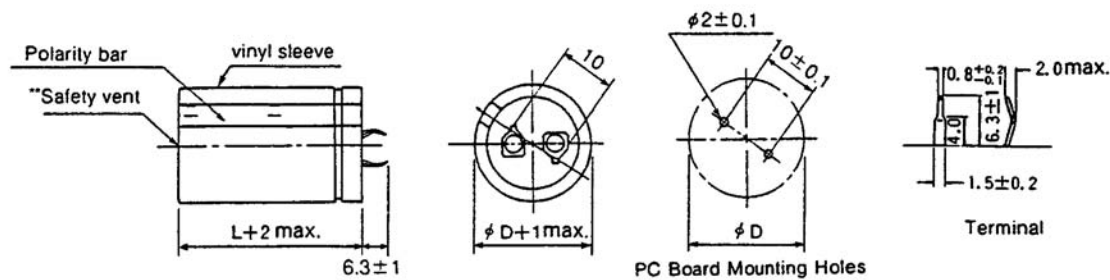
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Outline Drawings

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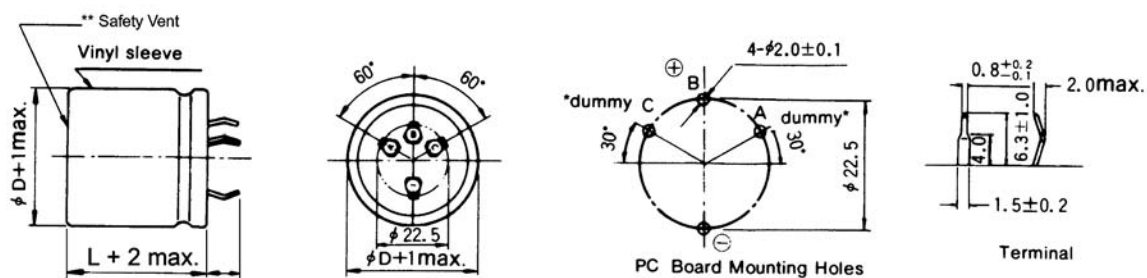
Two Pins

381L/LX (22 through 40 mm diameter)



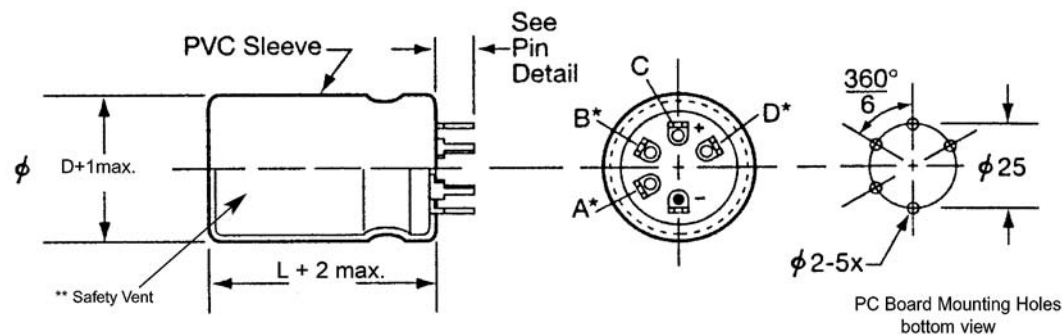
Four Pins

383L/LX (35 and 40mm diameter)



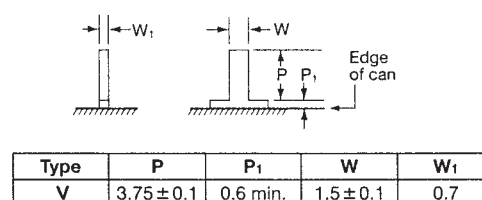
Five Pins

383L/LX (40 and 50mm diameter)



Terminal	Connection	
	40 mm Dia.	50 mm Dia.
A	dummy	negative (-)
B	dummy	dummy
C	positive (+)	positive (+)
D	dummy	positive (+)
-	negative (-)	negative (-)

V Terminal Standoff Pin Dimensions



Notes:

* Use dummy terminals for mechanical support only. Make no electrical connection because they resistively connect through the electrolyte to the negative terminal.

** Safety Vent may be on the bottom or on the side of the can.

Types 381L, 383L, 381LX & 383LX 105 °C High-Ripple Snap-In Insulated Case Dimensions

查询"381LX682M010K02"供应商

Case Code	DIAMETER "D"	LENGTH "L"	Typical Weight (grams)
H20	22 0.87	20 0.79	14
H01	22 0.87	25 0.98	16
H02	22 0.87	30 1.18	19
H03	22 0.87	35 1.38	22
H04	22 0.87	40 1.57	24
H45	22 0.87	45 1.77	28
H05	22 0.87	50 1.97	31
J20	25 0.98	20 0.79	16
J01	25 0.98	25 0.98	20
J02	25 0.98	30 1.18	24
J03	25 0.98	35 1.38	27
J04	25 0.98	40 1.57	31
J045	25 0.98	45 1.77	35
J05	25 0.98	50 1.97	38
K20	30 1.18	20 0.79	25
K01	30 1.18	25 0.98	30
K02	30 1.18	30 1.18	35
K03	30 1.18	35 1.38	40
K04	30 1.18	40 1.57	44
K45	30 1.18	45 1.77	48
K05	30 1.18	50 1.97	53

Case Code	DIAMETER "D"	LENGTH "L"	Typical Weight (grams)
A20	35 1.38	20 0.79	35
A01	35 1.38	25 0.98	42
A02	35 1.38	30 1.18	48
A03	35 1.38	35 1.38	54
A04	35 1.38	40 1.57	62
A45	35 1.38	45 1.77	67
A05	35 1.38	50 1.97	74
A06	35 1.38	63 2.48	88
A07	35 1.38	70 2.76	98
A08	35 1.38	80 3.15	112
A10	35 1.38	105 4.13	144
N04	40 1.57	40 1.57	82
N05	40 1.57	50 1.97	105
N06	40 1.57	63 2.48	130
N08	40 1.57	80 3.15	185
N10	40 1.57	105 4.13	265
B05	50 1.97	50 1.97	136
B06	50 1.97	63 2.48	168
B08	50 1.97	80 3.15	239
B09	50 1.97	92 3.62	241
B10	50 1.97	105 4.13	325

Part Numbering System

383LX

472

M

200

N08

2

V

Type

Capacitance

Tolerance

Rated Voltage

Case Code

Insulation

5-pin Option

381L (2 pins)

100 = 10 μ F

M = $\pm$ 20%

Vdc

2 PVC

(383L/LX, 40 or 50 mm dia)

381LX (2 pins)

101 = 100 μ F

383L (4 or 5 pins)

492 = 4900 μ F

383LX (4 or 5 pins)

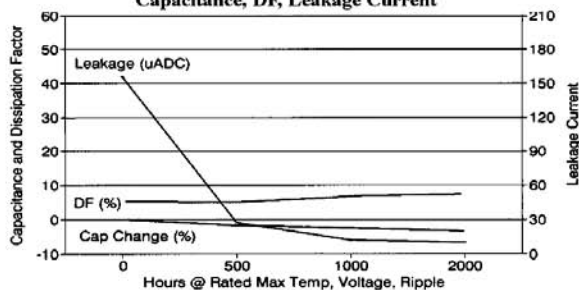
433 = 43,000 μ F

blank = 4 pins

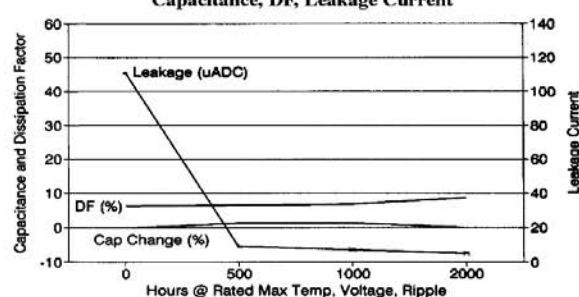
V = 5 pins

Typical Performance Curves

Life Test Data 381LX221M250J012
Capacitance, DF, Leakage Current



Life Test Data 381LX680M450J022
Capacitance, DF, Leakage Current



Type 381L/LX Operating Life in Kilohours vs Ripple Current

