

1.3. High AC Current Capacitors / Heavy Current Capacitors / Resonant Capacitors :

LC1-BN / LC2-BN / LC3-BN series :

Applications :

High Continuous AC Current applications, High Frequency AC/DC Filter, Medium Frequency Power applications, Induction Heating Equipments, High Current Welding, Resonant Circuits, Motor Controls; Oscillating, Bypass and Coupling circuits,.

Properties :

- Easy Installation
- Doesn't need any Water or Force Air Cooling
- High RMS Ripple Current with 100% duty
- Low ESR and ESL
- Low Thermal Resistance
- High continuous power with Lower Internal loss
- High Operating Temperature range up to +105C ranges
- Plastic Enclosure and Light Weight
- Flame Retardant UL94-V0 grade

Electrical Characteristics :

- Rated Voltage : Support customization
- Capacitance range : Support customization
- Ripple RMS Current up to 250A - All the listed Currents are for 100% duty.
- Reactive Power : Support customization

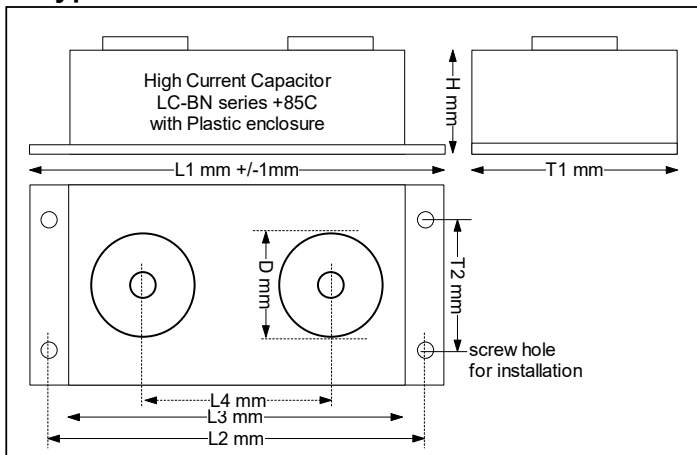
Other Electrical Characteristics :

- Capacitance Tolerance : +/-5%; +/-10%
- Operating Temperature : +70C / +85C

Thermal Resistance R θ : refer to the table below

Thermocouple can be built-in, capacitor internal temperature can be measured. The output temperature signal can be used as one of the reference signals in the circuit and trigger other function.

Box type : LC2-BN series



LC2-BN 350Vrms / 800Vdc

Part Number	Cn uF	L1 mm	T1 mm	H mm	Max. Irms +85C	R θ C/W +85C	Max. Power KVAR +85C	ESR mohm 100khz 25C	Stray Inductance nH	Connection Nut Screw Diameter Dmm
LC2-BN605K350VR	6	200	90	36	80	1.2	29	0.8	5	35

LC2-BN 380Vrms / 850Vdc

Part Number	Cn uF	L1 mm	T1 mm	H mm	Max. Irms +85C	R θ C/W +85C	Max. Power KVAR +85C	ESR mohm 100khz 25C	Stray Inductance nH	Connection Nut Screw Diameter Dmm
LC2-BN256K380VR	25	255	121	62	150	1.0	58	0.7	5	35

LC2-BN 500Vrms / 1200Vdc

Part Number	Cn uF	L1 mm	T1 mm	H mm	Max. Irms +85C	R θ C/W +85C	Max. Power KVAR +85C	ESR mohm 100khz 25C	Stray Inductance nH	Connection Nut Screw Diameter Dmm
LC3-BN506K500VR	50	265	185	95	150	1.0	75	1.5	6	35

In all circumstance, it is better to keep the actual capacitor Irms smaller than the listed Irms at the specific temperature.