

## 1.4. Induction Heating Capacitors :

LC1-BR / LC2-BR / LC3-BR series :

### Applications :

Induction heating power supplies, Induction Heating/Melting Equipments, Resonant Circuits, Tank Circuits and High Continuous AC Current applications, High Current Welding and High Current Power Supplies.

### Properties :

Easy Installation

With Heavy Duty Busbars for high current applications

Doesn't need Water Cooling

Force Air Cooling can be very useful, due to high current

High RMS Ripple Current with 100% duty

Low ESR and ESL

Low Thermal Resistance

High continuous power with Lower Internal loss

Plastic Enclosure and Light Weight

Flame Retardant UL94-V0 grade

Lower end customers Electricity Cost kWh by increasing Furnace/Oven

Heating Rate significantly

### Electrical Characteristics :

Reactive Power up to 800kVAR

Ripple RMS Current up to 800A - All the listed Currents are for 100% duty. – ( Support other voltage requirement )

Rated Voltage : 1000Vrms – 5500Vrms – ( Support other voltage requirement )

Maximum Frequency : up to 13kHz

Capacitance range : 0.5 – 20uF – ( Support other voltage requirement )

Voltage Test : 1.4 x Vn 10s

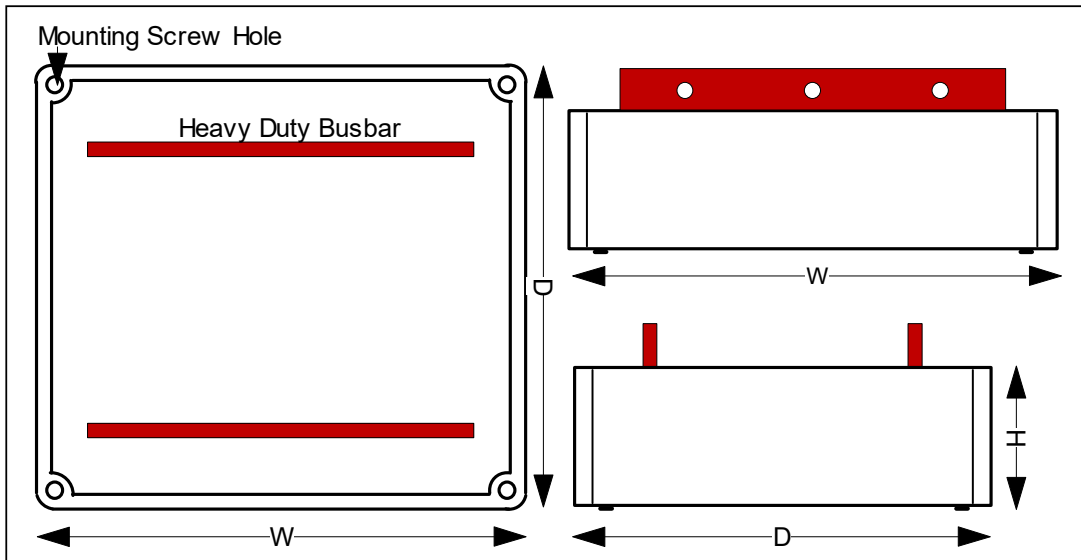
Over-Voltage : 1.05 x Vrms 12 hours / day

Over-Current : 1.15 x Irms +40C

### Other Electrical Characteristics :

Capacitance Tolerance : +/-10%

Operating Temperature : +70C / +85C and support +105C requirement



### Specifications and Size :

P/N	Cn uF	Vrms	Frequency kHz	Irms +50C	Cont. Power KVAR	Dimension +/-1mm W x D x H mm
LC1-BR805K1200VR600KVAR-V1	8	1200	8	500	600	340 x 280 x 105
LC1-BR705K1200VR500KVAR-V1	7.2	1200	7	420	500	340 x 280 x 105
LC1-BR505K1200VR600KVAR-V1	5	1200	13	500	600	340 x 280 x 105
LC1-BR355K1400VR560KVAR-V1	3.5	1400	13	400	560	340 x 280 x 105
LC3-BR504K5500VR550KVAR-V1	0.5	5500	5	100	550	560 x 280 x 105

Please feel free to tell the RMS Current, Reative Power, Capacitance and Voltage that work for your application For any Capacitance, Voltage, Ampere, kHz and kVAR not listed, please contact us for a suggestion.

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