

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

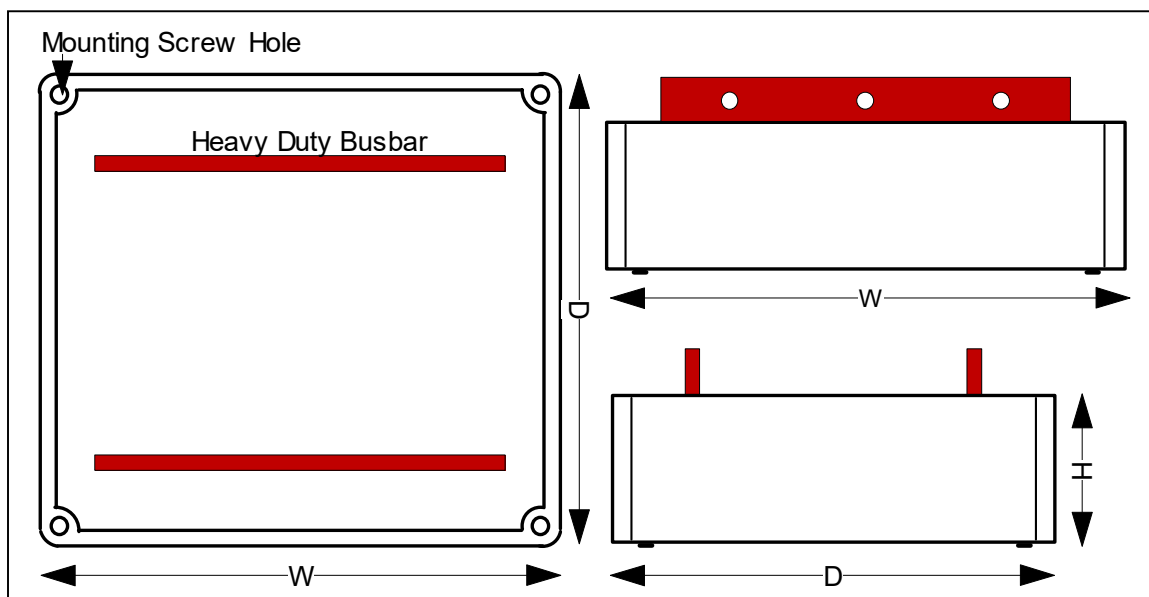
Electrical Characteristics :

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.

Headquarter & Production : HK Film Capacitor Ltd <https://www.filmcapacitor-st.com> e-mail : info@filmcapacitor-st.com
 Worldwide Sales Office : HKFC Industrial Pty Ltd <https://www.hkfc-industrial.com> e-mail : enquiry@hkfc-industrial.com