



HIGH CURRENT POWER INDUCTORS

HCB1008 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 120nH to 220nH
- Current range from 58A to 95A
- Ferrite core material

OPTIONS:

- Tape & Reel is Standard
- Bulk packaging Available for Smaller Quantities

APPLICATIONS:

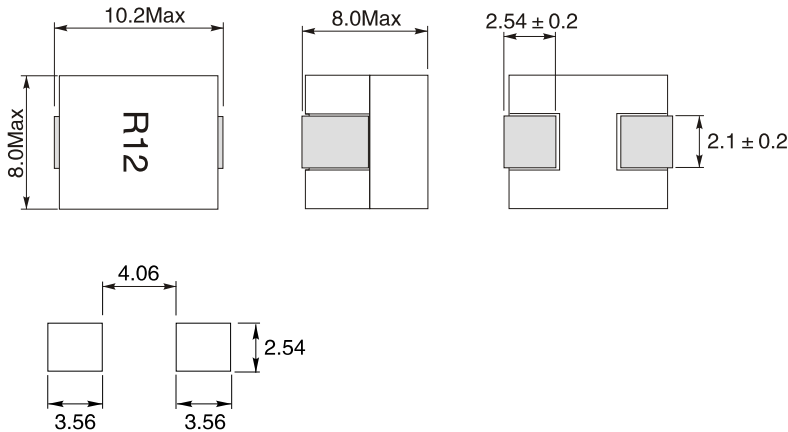
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module(VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @ Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1 (A)	Saturation current DC Amps Isat2(A)	DCR@25 °C (mΩ)
HCB1008R1-R12K	120	86.4	68	95	77	0.18 ± 5%
HCB1008R1-R15K	150	108	68	79	66	0.18 ± 5%
HCB1008R1-R18K	180	129.6	68	62	52	0.18 ± 5%
HCB1008R1-R22K	220	158.4	68	58	47	0.18 ± 5%

DIMENSIONS(mm) :

SCHEMATIC :



Recommended pad layout

NOTES:

- Test Frequency : 100KHz / 0.1V@25°C
- Irms: DC current for an approximate temperature rise of 40°C without core loss
- Isat1: Peak current for approximately 20% rolloff at +25°C
- Isat2: Peak current for approximately 20% rolloff at +125°C
- Operating temperature: -40°C to +125°C(ambient plus self-temperature rise)
- Storage temperature: -40°C to +125°C

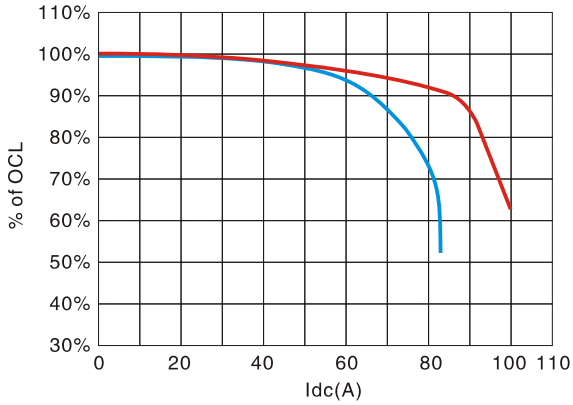


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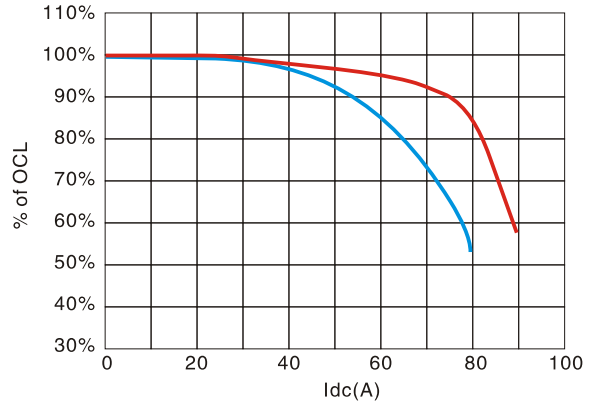
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INDUCTANCE CHARACTERISTICS:

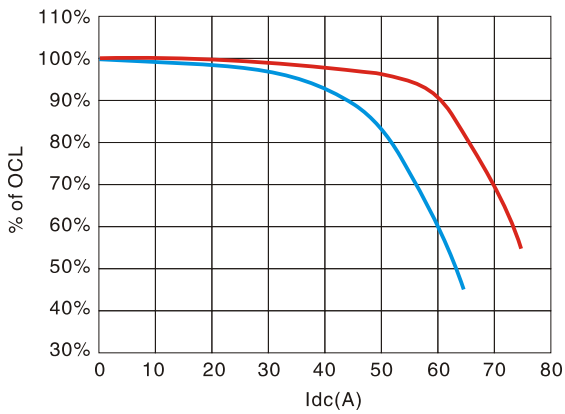
HCB1008R1-R12K



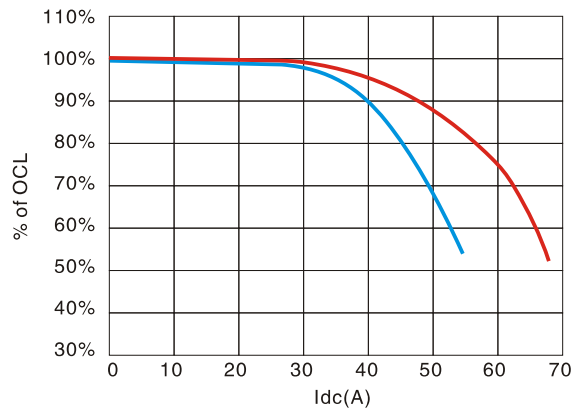
HCB1008R1-R15K



HCB1008R1-R18K



HCB1008R1-R22K



— +25°C

— +125°C