

HIGH CURRENT POWER INDUCTORS

HCB0805 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 32nH to 200nH
- Current range from 20A to 110A
- Ferrite core material

OPTIONS:

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

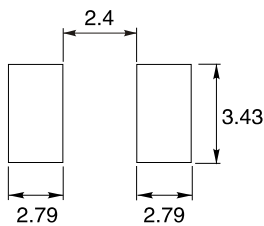
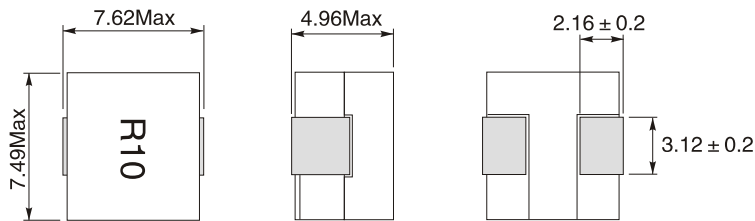
APPLICATIONS:

- 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:

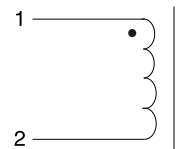
Part Number	Inductance (nH) $\pm 10\%$ @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 °C (m Ω)
HCB0805R1-32NK	32	23	65	110	95	0.17 $\pm 8\%$
HCB0805R1-58NK	58	42	65	83	61	0.17 $\pm 8\%$
HCB0805R1-72NK	72	52	65	67	49	0.17 $\pm 8\%$
HCB0805R1-R10K	100	72	65	50	35	0.17 $\pm 8\%$
HCB0805R1-R20K	200	144	65	20	16	0.17 $\pm 8\%$

DIMENSIONS(mm) :



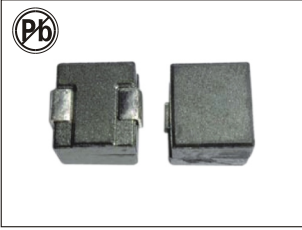
Recommended pad layout

SCHEMATIC :



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

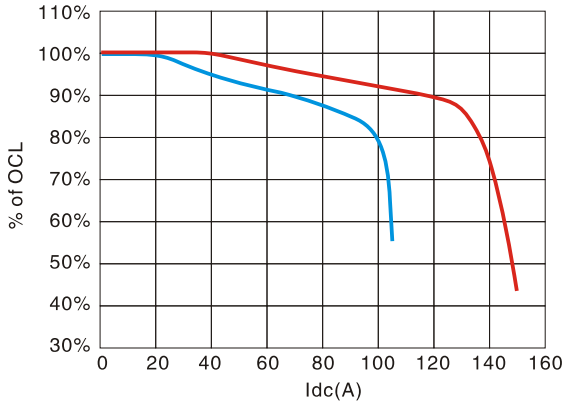


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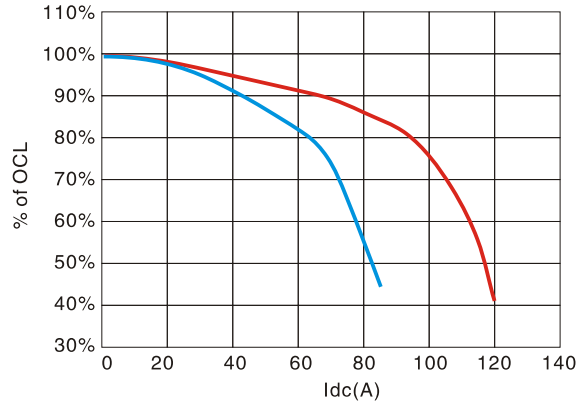
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INDUCTANCE CHARACTERISTICS:

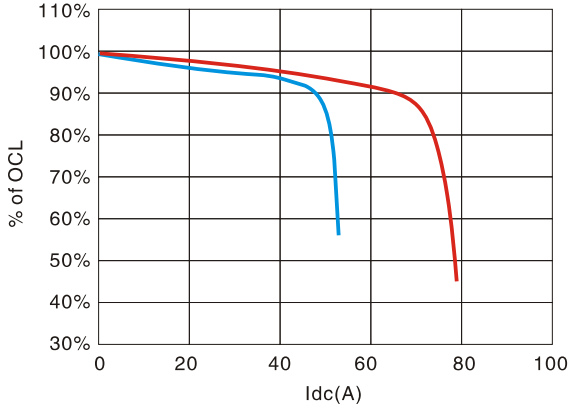
HCB0805R1-32NK



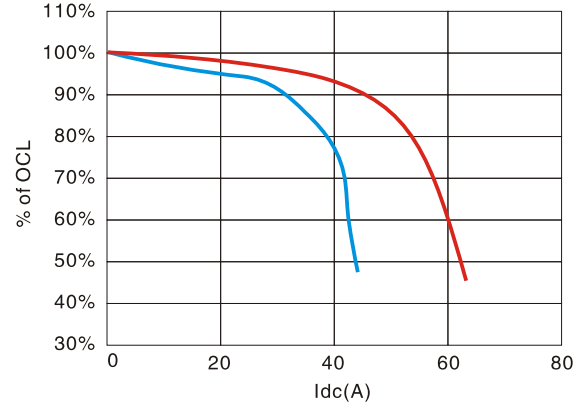
HCB0805R1-58NK



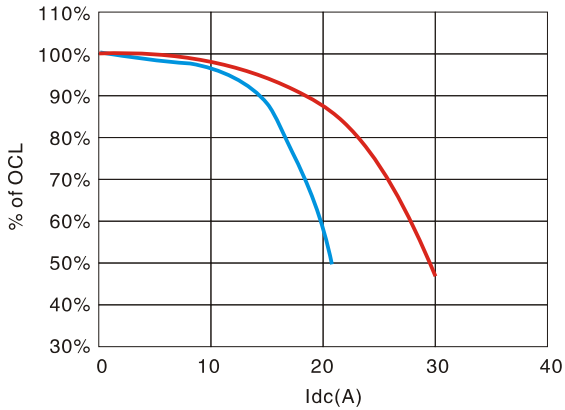
HCB0805R1-72NK



HCB0805R1-R10K



HCB0805R1-R20K



— +25°C
— +125°C