



HIGH CURRENT POWER INDUCTORS

HCB0906 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 100nH to 300nH
- Current range from 32.5A to 94A
- Ferrite core material

OPTIONS:

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

APPLICATIONS:

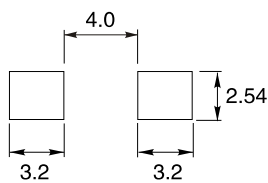
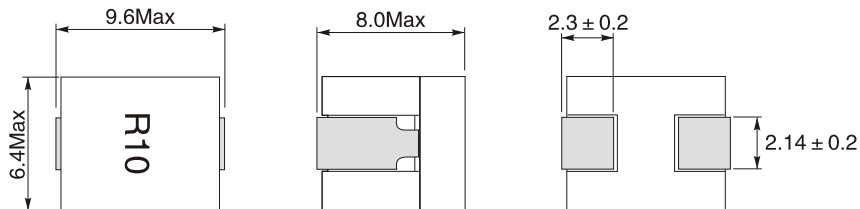
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module (VRM)

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)
HCB0906R1-R10K	100	72	51	94	81	0.29 ± 5%
HCB0906R1-R12K	120	86	51	79	68	0.29 ± 5%
HCB0906R1-R15K	150	108	51	65	54.5	0.29 ± 5%
HCB0906R1-R22K	220	155	51	44	37.5	0.29 ± 5%
HCB0906R1-R28K	280	200	51	34	29	0.29 ± 5%
HCB0906R1-R30K	300	216	51	32.5	27.5	0.29 ± 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

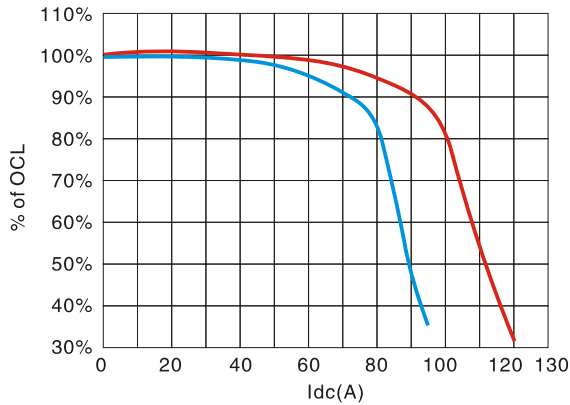


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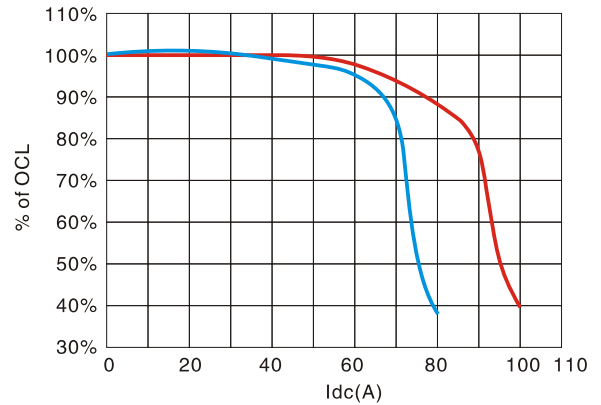
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INDUCTANCE CHARACTERISTICS:

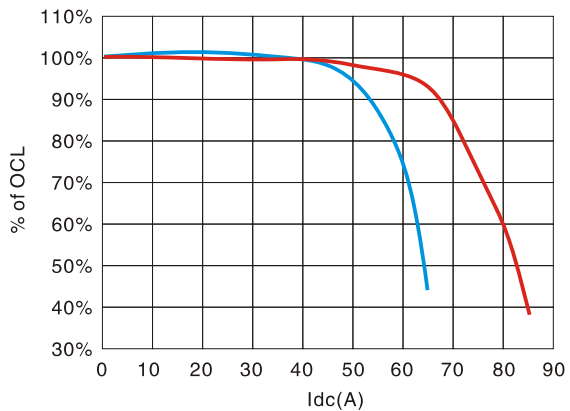
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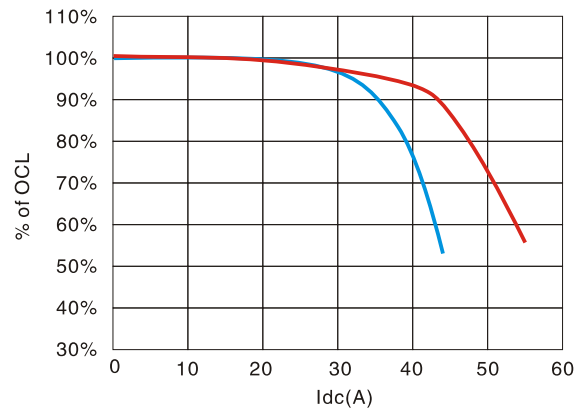
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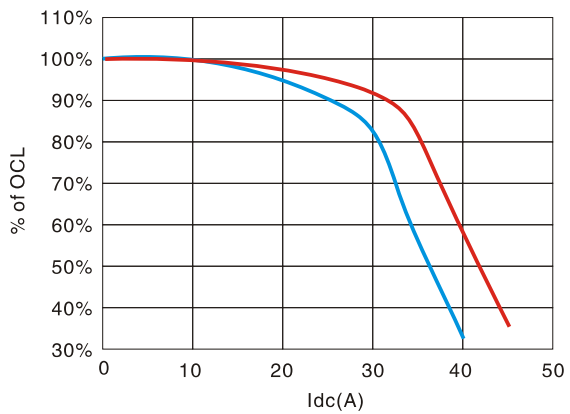
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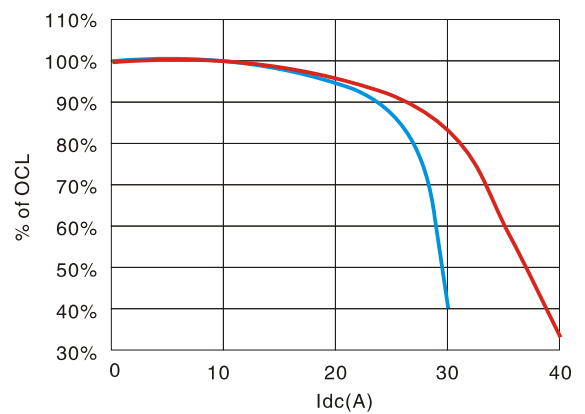
HCB0906R1-R22K



HCB0906R1-R28K



HCB0906R1-R30K



— +25°C — +125°C