

HIGH CURRENT POWER INDUCTORS

HCB0703 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 80nH to 150nH
- Current range from 16A to 32A
- Ferrite core material

OPTIONS:

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

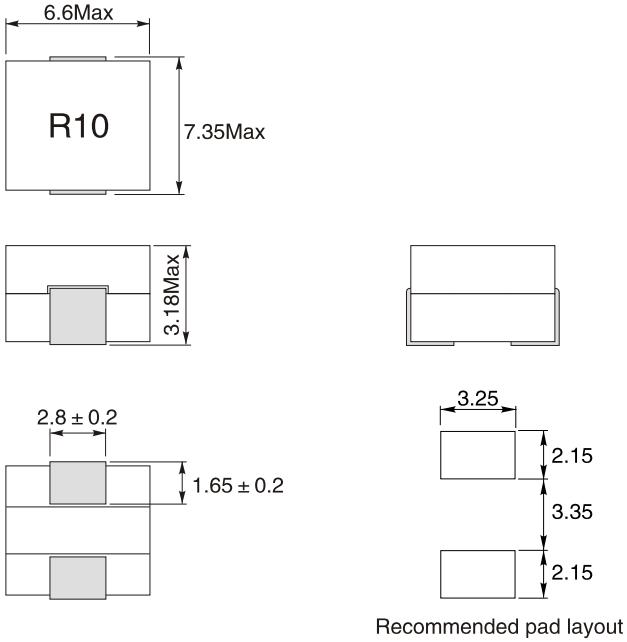
APPLCATIONS:

- 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:

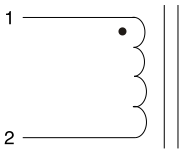
Part Number	Inductance (nH) ± 10% @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25℃ (mΩ) ± 10%
HCB0703R1–80NK	80	54	28	32	27	1.35
HCB0703R1–R10K	100	72	28	27	23	1.35
HCB0703R1–R12K	120	86	28	22	19	1.35
HCB0703R1–R15K	150	108	28	16	13	1.35

DIMENSIONS(mm) :



Recommended pad layout

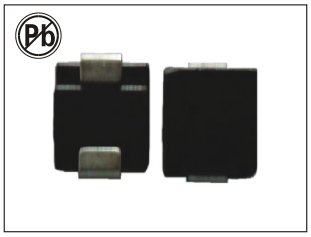
SCHEMATIC :



NOTES:

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

Note:All specifications subject to change without notice.

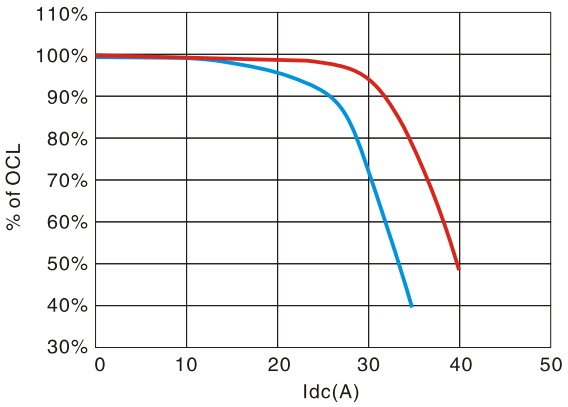


HIGH CURRENT POWER INDUCTORS

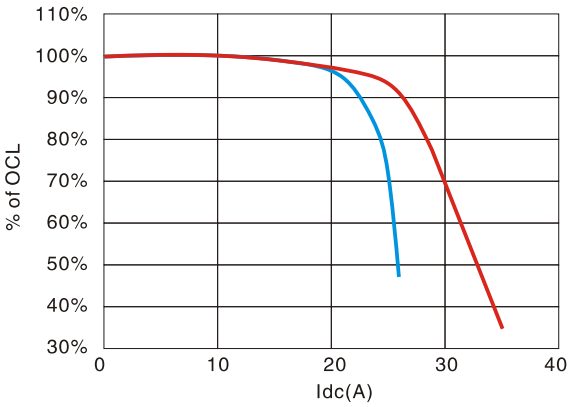
HCB0703 SERIES

INDUCTANCE CHARACTERISICS:

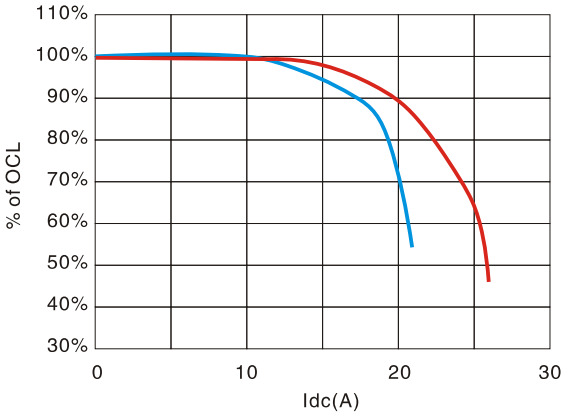
HCB0703R1-80NK



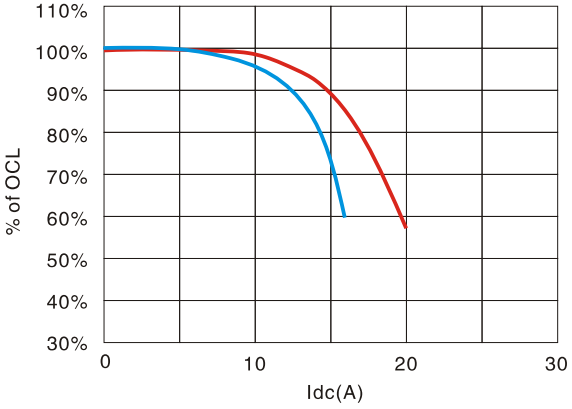
HCB0703R1-R10K



HCB0703R1-R12K



HCB0703R1-R15K



+25℃

+125℃