

HIGH CURRENT POWER INDUCTORS

HCB0404 0505 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 22nH to 110nH
- Current range from 14A to 40A
- Ferrite core material

OPTIONS:

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

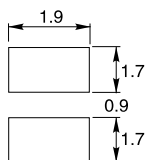
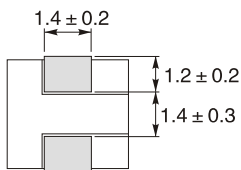
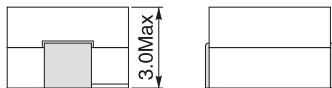
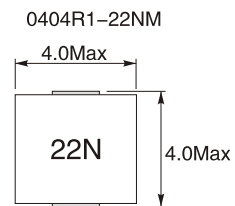
APPLICATIONS:

- 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:

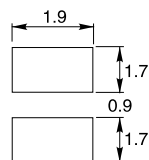
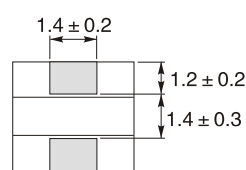
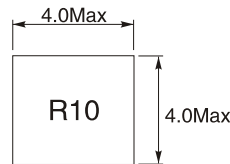
Part Number	Inductance (nH) $\pm 15\%$ @0A _{dc}	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat1(A)	Saturation current DC Amps Isat2(A)	DCR@25 °C (m Ω) $\pm 25\%$
HCB0404R1-22NM	22 $\pm 20\%$	15	19	40	32	0.32 $\pm 15\%$
HCB0404R1-65NY	65	44	19	24	20	0.32
HCB0404R1-80NY	80	54	19	20	16	0.32
HCB0404R1-R10Y	100	68	19	16	13	0.32
HCB0404R1-R11Y	110	74	19	14	12	0.32
HCB0505R1-R10K	100	68	30	34	24	0.38

DIMENSIONS:(mm)



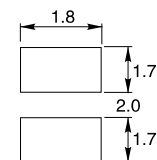
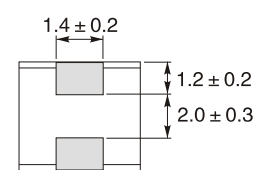
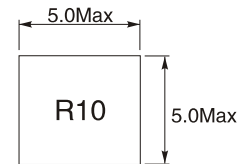
Recommended pad layout

0404R1-65NY,80NY,R10Y,R11Y



Recommended pad layout

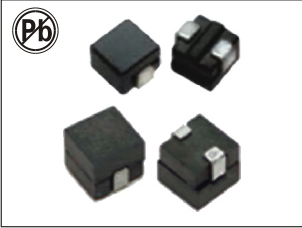
0505R1-R10K



Recommended pad layout

NOTES:

- Test Frequency : 100KHz / 0.1V@25°C (1MHz/0.1V for 22NM)
- 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

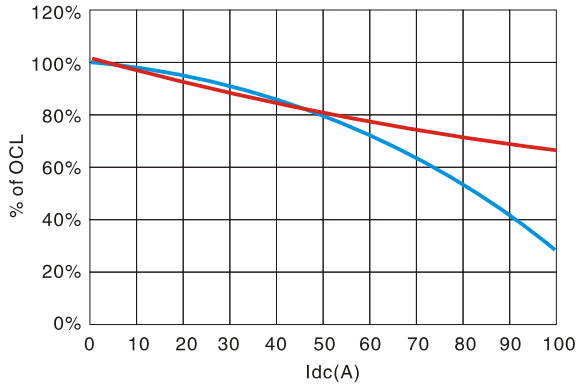


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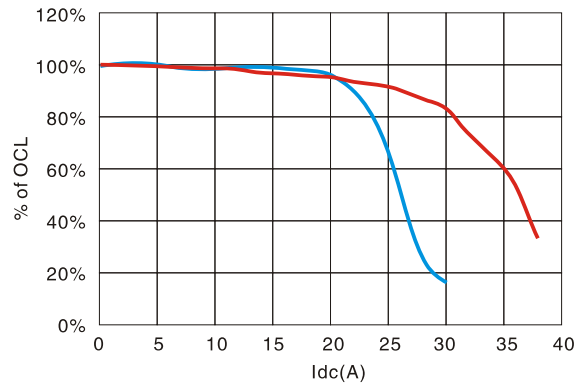
HCB0404 0505 SERIES

INDUCTANCE CHARACTERISTICS:

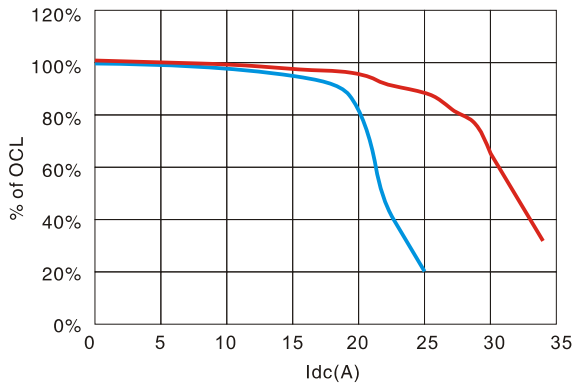
HCB0404R1-22NM



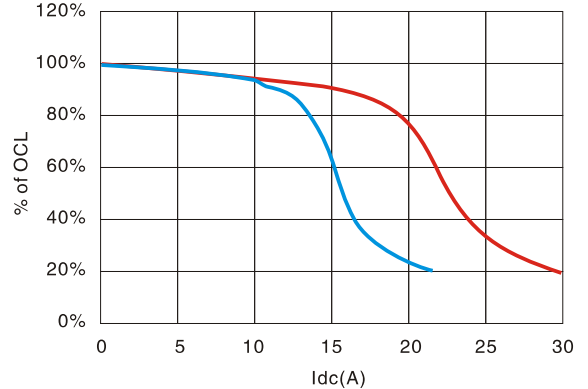
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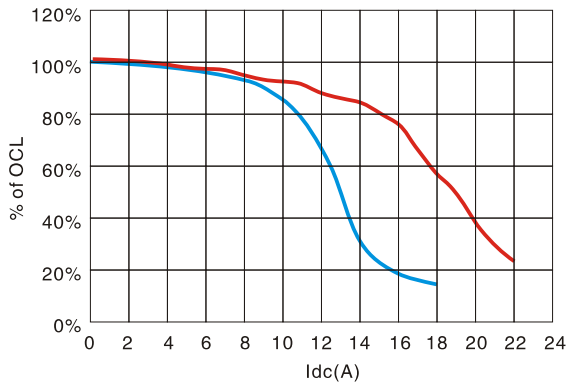
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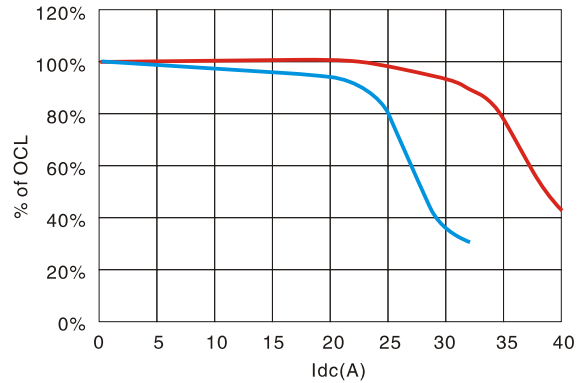
HCB0404R1-R10Y



HCB0404R1-R11Y



HCB0505R1-R10K



— +25°C
— +125°C