

HIGH CURRENT POWER INDUCTORS

HCB1313 SERIES

FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 210nH to 520nH
- Current range from 13A to 71A
- Ferrite core material

OPTIONS:

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

APPLICATIONS:

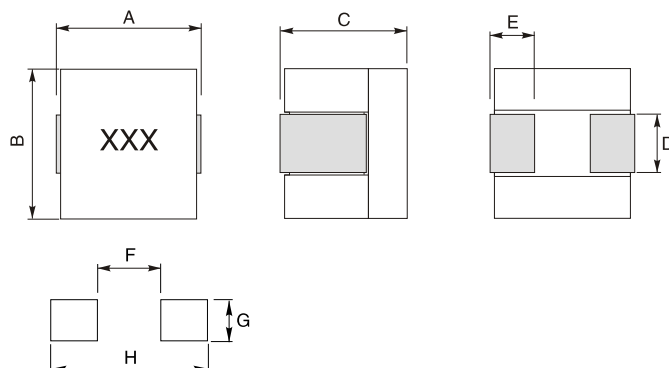
- Portable electronics
- Servers and workstations
- Data networking and storage systems
- Notebook and desktop computers
- Graphics cards and battery power systems
- Multi-phase regulators
- Voltage regulator module (VRM)

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (nH) $\pm 15\%$ @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25 °C (mΩ)
HCB1313R1-R22K	220	176	50	40	0.155 $\pm 10\%$
HCB1313R1-R28K	280	224	50	30	0.155 $\pm 10\%$
HCB1313R1-R31K	310	248	50	24	0.155 $\pm 10\%$
HCB1313R1-R40K	400	320	50	18	0.155 $\pm 10\%$
HCB1313R1-R52K	520	416	50	13	0.155 $\pm 10\%$
HCB1313R2-R21K	210	168	45	71	0.32 $\pm 9.4\%$
HCB1313R2-R26K	260	208	45	60	0.32 $\pm 9.4\%$
HCB1313R2-R32K	320	256	45	50	0.32 $\pm 9.4\%$
HCB1313R2-R44K	440	352	45	35	0.32 $\pm 9.4\%$
HCB1313R2-R50K	500	400	45	28	0.32 $\pm 9.4\%$

DIMENSIONS(mm) :

SCHEMATIC :



Recommended pad layout

Dimensions

Part No.	A	B	C	D	E	F	G	H
R1	13.5max	13.2max	5.3max	5.0 ± 0.2	2.0 ± 0.2	8.0	5.5	14.0
R2	13.46max	13.0max	8.0max	5.0 ± 0.2	2.54 ± 0.3	7.11	7.62	13.47

NOTES:

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