



# HIGH CURRENT POWER INDUCTORS

## HCB1211 SERIES

### FEATURES:

- High current carrying capacity
- Low core loss
- Inductance range from 230nH to 540nH
- Current range from 26A to 60A
- Ferrite core material

### OPTIONS:

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

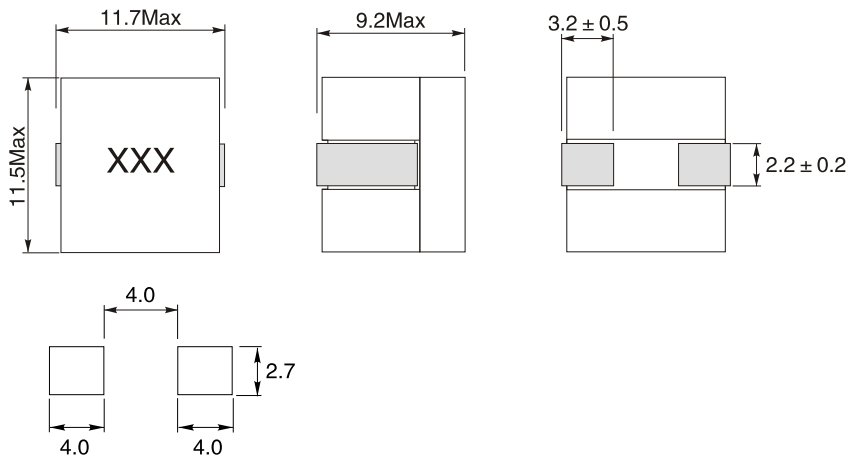
### APPLICATIONS:

- 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:

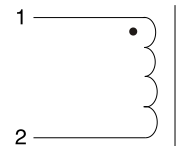
Part Number	Inductance (nH) $\pm 15\%$ @0Adc	Inductance (nH)Min @Isat1	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR@25 °C (m $\Omega$ )
HCB1211R1-R23K	230	184	40	60	0.3 $\pm 7\%$
HCB1211R1-R32K	320	256	40	45	0.3 $\pm 7\%$
HCB1211R1-R38K	380	304	40	40	0.3 $\pm 7\%$
HCB1211R1-R46K	460	368	40	32	0.3 $\pm 7\%$
HCB1211R1-R54K	540	432	40	26	0.3 $\pm 7\%$

### 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
- 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