

## FEATURES

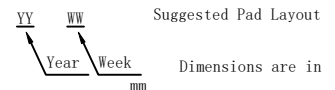
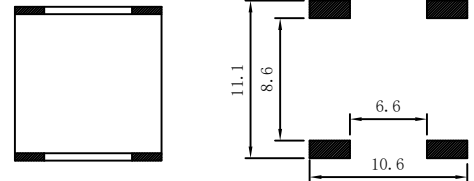
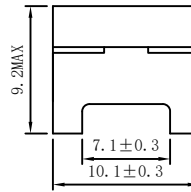
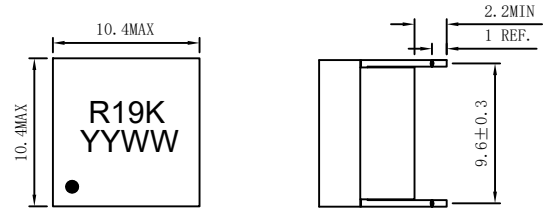
- RoHS compliant
- Super low resistance
- Designed for high current power supply applications
- Ferrite core material Magnetic shield construction provide good EMI
- Tape & reel packing
- Solder profile acc.J-STD-020D



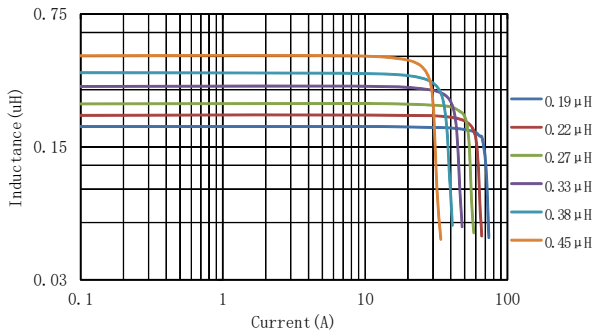
## APPLICATIONS

- High current DC-DC converters
- Telecom soft switches, Base stations
- Battery powered devices
- VRM, multi-phase buck regulators
- PDA, Notebook computers, PC Workstations, Routers, Servers

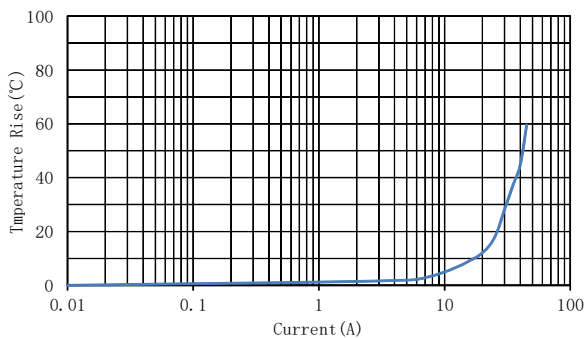
Part number	Inductance (μH)	Tolerance (±%)	DCR (mΩ)	I <sub>sat</sub> (A)MIN	I <sub>rms</sub> (A)
MHB1010SGR19K	0.19	10	0.31±10%	0.152 μH@58A	40
MHB1010SGR22K	0.22	10	0.31±10%	0.176 μH@50A	40
MHB1010SGR25K	0.25	10	0.31±10%	0.216 μH@40A	40
MHB1010SGR33K	0.33	10	0.31±10%	0.264 μH@32A	40
MHB1010SGR38K	0.38	10	0.31±10%	0.304 μH@27A	40
MHB1010SGR45K	0.45	10	0.31±10%	0.360 μH@23A	40



## Typical L vs Current



## Temperature Rise vs Current



## ABSOLUTE MAXIMUM RATINGS

Operating temperature range (including self-temperature rise)	-40°C to +125°C
Storage temperature range	-40°C to +125°C

## SOLDERING INFORMATION

Peak reflow temperature	250°C
Pin finish	Matte tin
Moisture sensitivity level	1

## PACKAGING INFORMATION

Tape&Reel	350pcs per reel
Weight	3.5g/pcs

## Notes

1. Electrical specification at 25°C.
2. Inductance tested at 500 kHz, 1.0Vrms.
3. I<sub>rms</sub> is the current that caused a approx 45°C temperature rise from 25°C ambient.