

## FEATURES

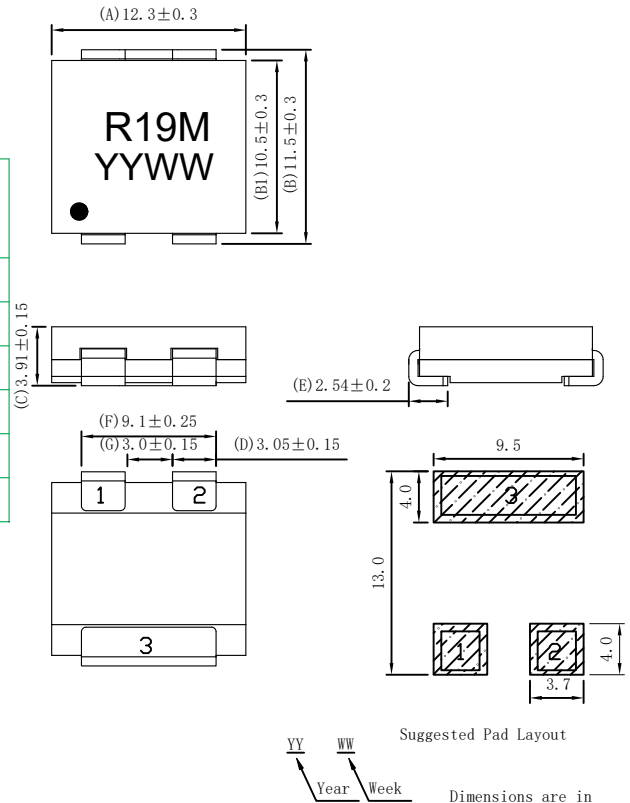
- RoHS compliant
- Super low resistance
- Designed for high current power supply applications
- Ferrite core material Magnetic shield construction provide good EMI
- Tape & reel packing
- Solder profile acc.J-STD-020D

## APPLICATIONS

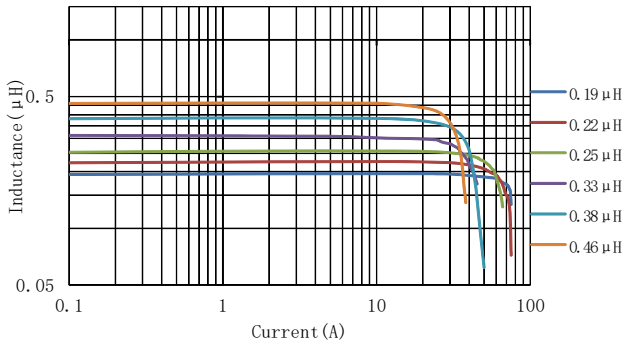
- High current DC-DC converters
- Telecom soft switches, Base stations
- Battery powered devices
- VRM, multi-phase buck regulators
- PDA, Notebook computers, PC Workstations, Routers, Servers



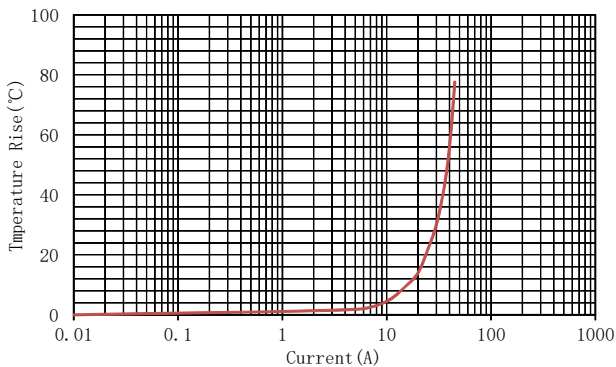
Part number	Inductance (μH)	Tolerance (±%)	DCR (mΩ)	Isat (A) MIN	Irms (A)
MHB1304SGR19M	0.19	20	0.50 ± 10%	0.133 μH@70A	38
MHB1304SGR22M	0.22	20	0.50 ± 10%	0.154 μH@60A	38
MHB1304SGR25M	0.25	20	0.50 ± 10%	0.175 μH@50A	38
MHB1304SGR33M	0.33	20	0.50 ± 10%	0.224 μH@40A	38
MHB1304SGR38M	0.38	20	0.50 ± 10%	0.266 μH@30A	38
MHB1304SGR46M	0.46	20	0.50 ± 10%	0.322 μH@22A	38



## 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	900pcs per reel
Weight	2.7g/pcs

## Notes

1. Electrical specification at 25°C.
2. Inductance tested at 500 kHz, 1.0Vrms.
3. Isat is the DC current at which inductance drop 30% from its value without current.
4. Irms is the current that caused a approx 45°C temperature rise from 25°C ambient.