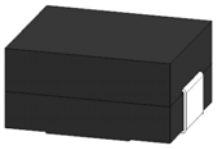
POWER INDUCTOR
MHB1206SG SERIES

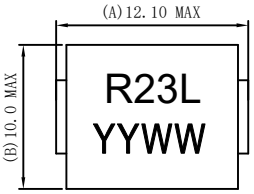
FEATURES

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

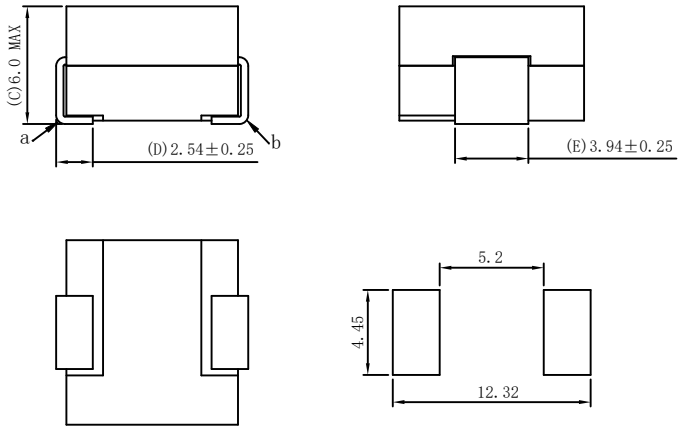


APPLICATIONS

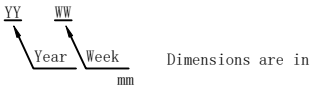
- High current DC-DC converters
- Telecom soft switches, Base stations
- Battery powered devices
- VRM, multi-phase buck regulators
- PDA, Notebook computers, PC Workstations, Routers, Servers



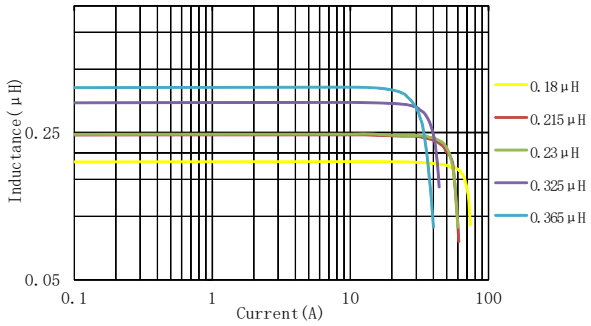
Part number	Inductance (μH)	Tolerance (±%)	DCR (mΩ)	Isat (A)	Irms (A)
MHB1206SGR12L	0.12	15	0.29±6.5%	84	36
MHB1206SGR18L	0.18	15	0.29±6.5%	64	36
MHB1206SGR22L	0.215	15	0.29±6.5%	53	36
MHB1206SGR23L	0.23	15	0.29±6.5%	47	36
MHB1206SGR33L	0.325	15	0.29±6.5%	34	36
MHB1206SGR37L	0.365	15	0.29±6.5%	30	36



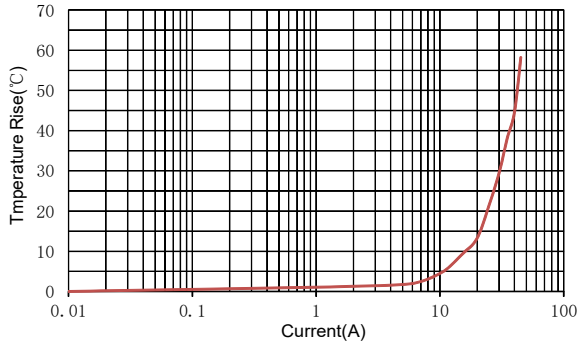
Sugested Pad Layout



Typical L vs Current



Temperature Rise vs Current



ABSOLUTE MAXIMUM RATINGS

Operating temperature range (including self-temperature rise)	-40℃ to +125℃
Storage termperature range	-40℃ to +125℃

SOLDERING INFORMATION

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

PACKAGING INFORMATION

Tape&Reel	600pcs per reel
Weigh	2.95g/pcs

Notes

1. Electrical specification at 25℃.
2. Inductance tested at 100 kHz, 1.0Vrms.
3. The nominal DCR is measured from point a to point b, as shown on the mechanical drawing.
4. The saturation cureent is the DC current at which inductance drop by 20% from its value without current
5. Irms is the current that caused a approx 40℃ temperature rise from 25℃ ambient.