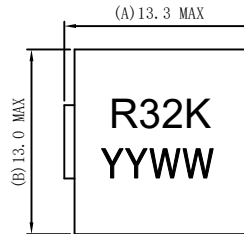
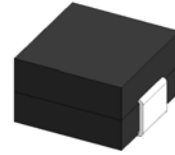


### FEATURES

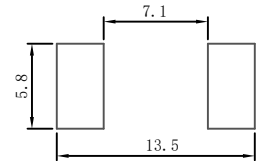
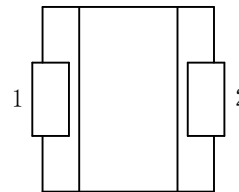
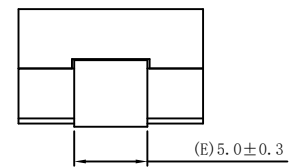
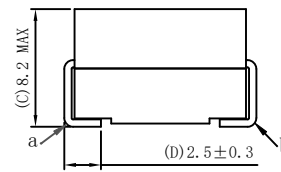
- RoHS compliant
- Super low resistance
- Designed for high current power supply applications
- Ferrite core material Magnetic shield construction provide good EMI
- Tape & reel packing
- Solder profile acc.J-STD-020D

### APPLICATIONS

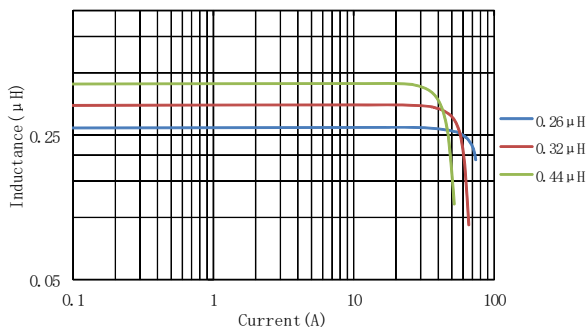
- High current DC-DC converters
- Telecom soft switches, Base stations
- Battery powered devices
- VRM, multi-phase buck regulators
- PDA, Notebook computers, PC Workstations, Routers, Servers



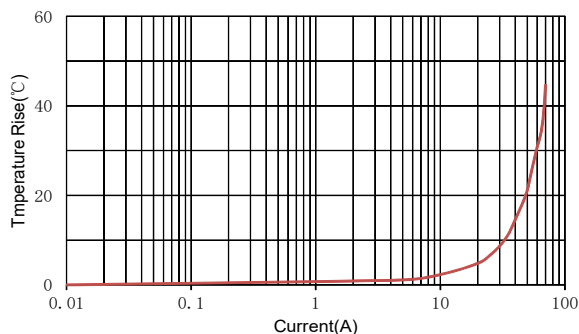
Part number	Inductance (μH)	Tolerance (±%)	DCR (mΩ)	Isat (A)	Irms (A)
MHB1308SGR11KA	0.11	10	0.18±20%	120	68
MHB1308SGR21KA	0.21	10	0.18±20%	80	68
MHB1308SGR26KA	0.26	10	0.18±20%	64	68
MHB1308SGR32KA	0.32	10	0.18±20%	52	68
MHB1308SGR44KA	0.44	10	0.18±20%	37	68



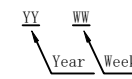
### Typical L vs Current



### Temperature Rise vs Current



### Suggested Pad Layout



Dimensions are in

### ABSOLUTE MAXIMUM RATINGS<sup>mm</sup>

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	400pcs per reel
Weight	5.6g/pcs

### Notes

1. Electrical specification at 25°C.
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 current 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°C temperature rise from 25°C ambient.