

FEATURES

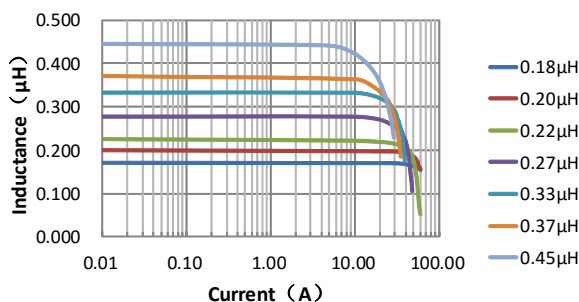
- RoHS compliant
- Super low resistance
- Designed for high current power supply applications
- Ferrite core material Magnetic shield construction provide good EMI
- Tape & reel packing
- Solder profile acc.J-STD-020D

APPLICATIONS

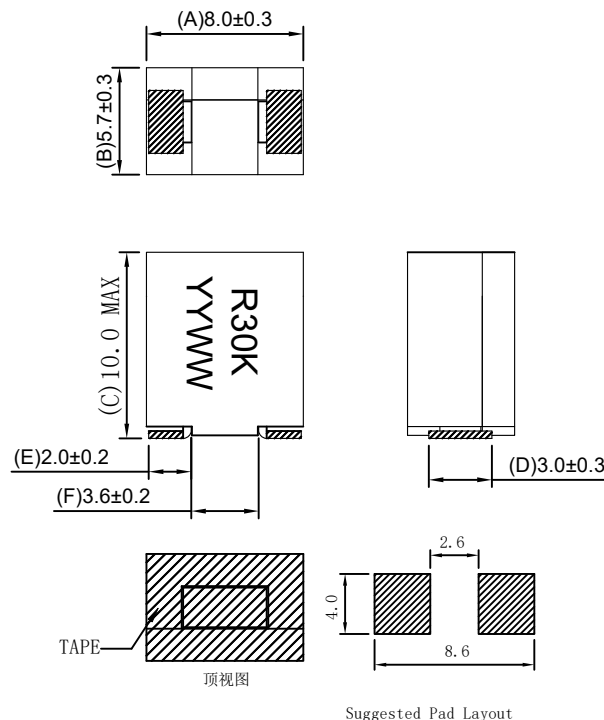
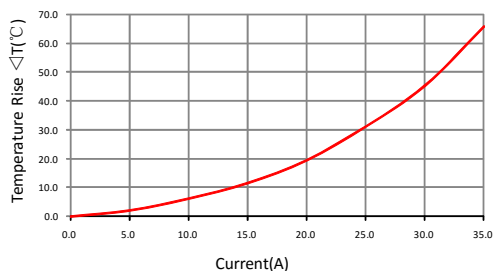
- High current DC-DC converters
- Telecom soft switches, Base stations
- Battery powered devices
- VRM, multi-phase buck regulators
- PDA, Notebook computers, PC Workstations, Routers, Servers

Part number	Inductance (μ H)	Tolerance ($\pm$ %)	DCR (m Ω)	Isat (A)	Irms (A) Typ
MHB0810SGR18K	0.18	10	$0.6 \pm 10\%$	65	27
MHB0810SGR22K	0.22	10	$0.6 \pm 10\%$	57	27
MHB0810SGR25K	0.25	10	$0.6 \pm 10\%$	50	27
MHB0810SGR30K	0.30	10	$0.6 \pm 10\%$	40	27
MHB0810SGR36K	0.36	10	$0.6 \pm 10\%$	29	27
MHB0810SGR44K	0.44	10	$0.6 \pm 10\%$	20	27
MHB0810SGR55K	0.55	10	$0.6 \pm 10\%$	15	27

Typical L vs Current



Temperature Rise vs Current



ABSOLUTE MAXIMUM RATINGS

Operating temperature rang (including self-temperature rise)	-40 $^{\circ}$ C to +125 $^{\circ}$ C
Storage temperature rang	-40 $^{\circ}$ C to +125 $^{\circ}$ C

SOLDERING INFORMATION

Peak reflow temperature	250 $^{\circ}$ C
Pin finish	Matte tin
Moisture sensitivity level	1

PACKAGING INFORMATION

Tape&Reel	500pcs per reel
Weight	2.15g/pcs

Notes

1. Electrical specification at 25 $^{\circ}$ C.
2. Inductance tested at 100 kHz, 1.0Vrms.
3. Isat is the DC current at which inductance drop 20% from its value without current.
4. Irms is the current that caused a approx 40 $^{\circ}$ C temperature rise from 25 $^{\circ}$ C ambient.