

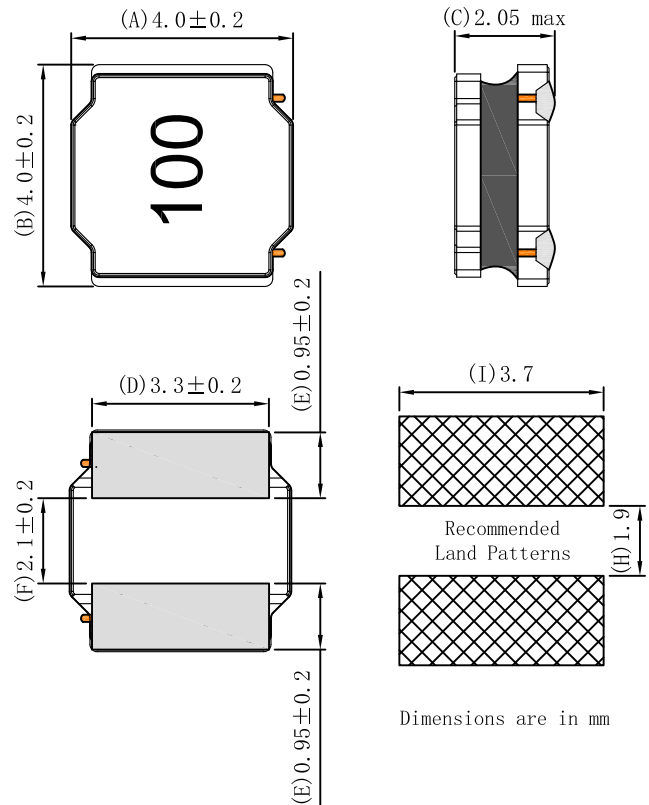
FEATURES

- RoHS compliant
- Small size (4.0*4.0mm), low profile (Height: 2.05mm Max)
- Surface mount design
- Magnetic shield construction with magnetic powder resin
- Good EMI
- High saturation current
- Inductance range from 1.0uH to 47uH
- Tape & reel packing
- UL94V-0
- Solder profile acc. J-STD-020D

APPLICATIONS

DC-DC Converters
Cell phones
LCD displays
Office automotive
Notebook computers
PDAs

Part number	Inductance (μ H)	Tolerance (\pm %)	DCR (m Ω) \pm 30%	SRF Min (MHz)	Isat (A)	Irms (A)
MDRH4020SG1R0N	1.0	30	28	82	5.10	2.15
MDRH4020SG1R2N	1.2	30	29	64	4.70	2.10
MDRH4020SG1R5N	1.5	30	35	55	4.45	1.98
MDRH4020SG2R2M	2.2	20	40	53	3.40	1.85
MDRH4020SG3R3M	3.3	20	70	45	3.20	1.40
MDRH4020SG4R7M	4.7	20	80	35	2.35	1.34
MDRH4020SG5R6M	5.6	20	95	33	2.20	1.22
MDRH4020SG6R8M	6.8	20	125	30	2.00	1.04
MDRH4020SG8R2M	8.2	20	150	26	1.75	1.00
MDRH4020SG100M	10	20	165	25	1.60	0.90
MDRH4020SG120M	12	20	175	22	1.50	0.88
MDRH4020SG150M	15	20	230	20	1.35	0.77
MDRH4020SG220M	22	20	350	17	1.05	0.62
MDRH4020SG330M	33	20	550	13	0.85	0.49
MDRH4020SG470M	47	20	710	11	0.74	0.44



ABSOLUTE MAXIMUM RATINGS

Operating temperature rang -40 °C to +125 °C
(Including coil' self temperature rise)
Storage temperature rang -40 °C to +125 °C

SOLDERING INFORMATION

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

PACKAGING INFORMATION

Tape&Reel 3000pcs per reel
Weight 0.135g/pcs

Notes

1. Electrical specification at 25 °C.
2. Inductance tested at 100 kHz, 0.25Vrms.
3. Isat is the DC current at which inductance drop 30% max from its value without current.
4. I rms is the current that caused a approx 40 °C temperature rise from 25 °C ambient.