

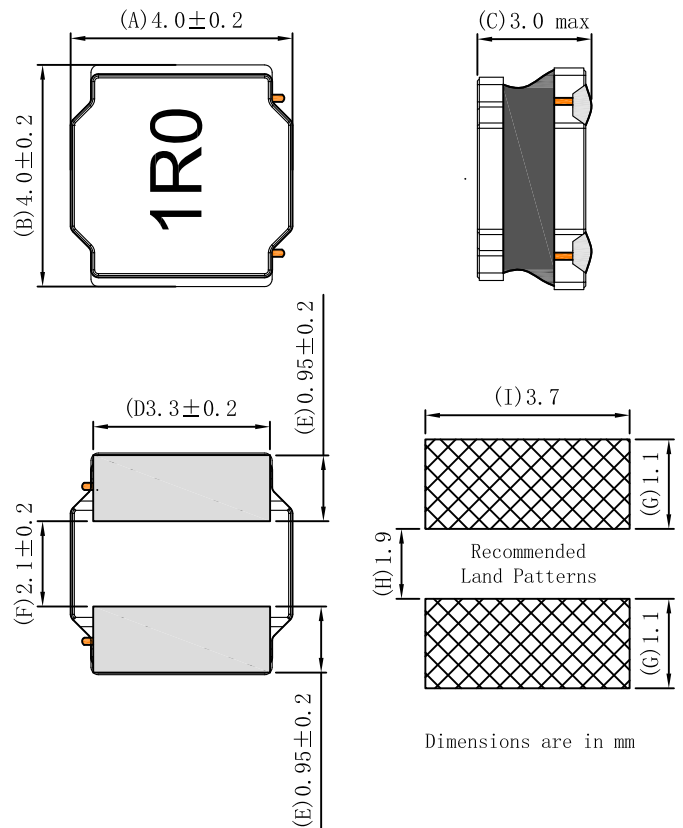
FEATURES

- RoHS compliant
- Small size (4.0*4.0mm), low profile (Height: 3.0mm Max)
- Surface mount design
- Magnetic shield construction with magnetic powder resin
- Good EMI
- High saturation current
- Inductance range from 0.47uH to 100uH
- 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)	I _{rms} (A)
MDRH4030SGR47N	0.47	30	11	90	7.50	4.00
MDRH4030SG1R0N	1.0	30	15	85	5.90	3.80
MDRH4030SG1R5N	1.5	30	25	66	4.85	3.30
MDRH4030SG2R2M	2.2	20	35	54	4.10	2.95
MDRH4030SG3R3M	3.3	20	40	47	3.30	2.40
MDRH4030SG4R7M	4.7	20	60	38	2.90	2.00
MDRH4030SG5R6M	5.6	20	70	35	2.75	1.95
MDRH4030SG6R8M	6.8	20	75	33	2.60	1.70
MDRH4030SG7R5M	7.5	20	90	30	2.20	1.65
MDRH4030SG8R2M	8.2	20	100	29	2.10	1.60
MDRH4030SG100M	10	20	115	27	1.95	1.50
MDRH4030SG120M	12	20	140	22	1.70	1.35
MDRH4030SG150M	15	20	190	21	1.65	1.15
MDRH4030SG180M	18	20	215	19	1.40	1.10
MDRH4030SG220M	22	20	225	17	1.30	1.00
MDRH4030SG330M	33	20	330	14	1.10	0.84
MDRH4030SG470M	47	20	500	10	0.90	0.72
MDRH4030SG560M	56	20	560	9	0.85	0.65
MDRH4030SG680M	68	20	750	6	0.75	0.55
MDRH4030SG820M	82	20	950	5	0.68	0.50
MDRH4030SG101M	100	20	1150	3	0.60	0.45



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 2000pcs per reel
Weight 0.18g/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.