

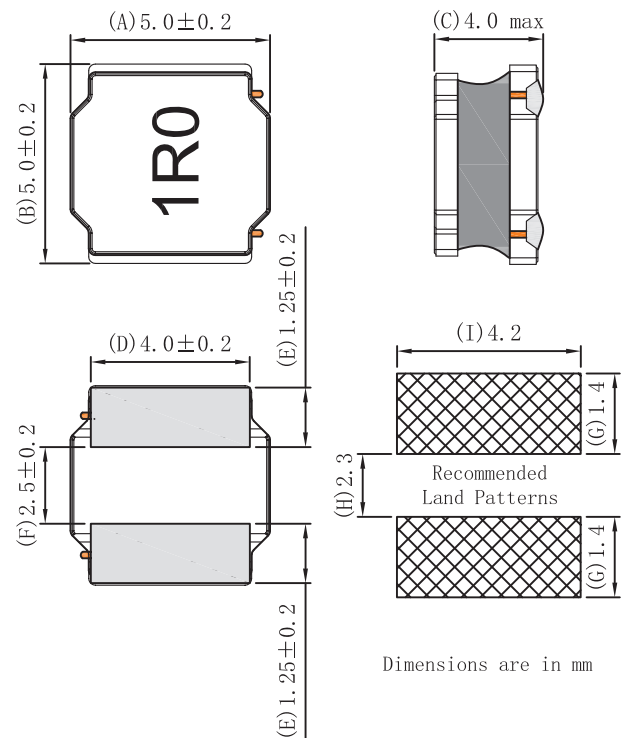
## FEATURES

- RoHS compliant
- Small size (5.0\*5.0mm), low profile (Height: 4.0mm Max)
- Surface mount design
- Magnetic shield construction with magnetic powder resin
- Good EMI
- High saturation current
- Inductance range from 1.0uH 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 (μH)	Tolerance (±%)	DCR (mΩ) ±30%	SRF Min (MHz)	Isat (A)	Irms (A)
MDRH5040SG1R0N	1.0	30	13	60	7.35	4.90
MDRH5040SG1R5N	1.5	30	15	45	6.30	4.30
MDRH5040SG2R2N	2.2	30	19	42	4.90	3.80
MDRH5040SG2R7N	2.7	30	22	35	4.30	3.60
MDRH5040SG3R3N	3.3	30	24	32	3.95	3.40
MDRH5040SG3R9N	3.9	30	27	30	3.55	3.20
MDRH5040SG4R7N	4.7	30	30	28	3.50	3.00
MDRH5040SG6R8M	6.8	20	43	21	2.90	2.50
MDRH5040SG100M	10	20	64	18	2.35	2.10
MDRH5040SG150M	15	20	86	13	2.00	2.00
MDRH5040SG220M	22	20	129	9	1.60	1.50
MDRH5040SG270M	27	20	165	8	1.50	1.30
MDRH5040SG330M	33	20	188	7	1.30	1.20
MDRH5040SG470M	47	20	270	6	1.10	1.00
MDRH5040SG680M	68	20	400	4	0.90	0.80
MDRH5040SG101M	100	20	560	3	0.75	0.70



## 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 1500pcs per reel  
Weight 0.43g/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. Irms is the current that caused a approx 40 °C temperature rise from 25 °C ambient.