

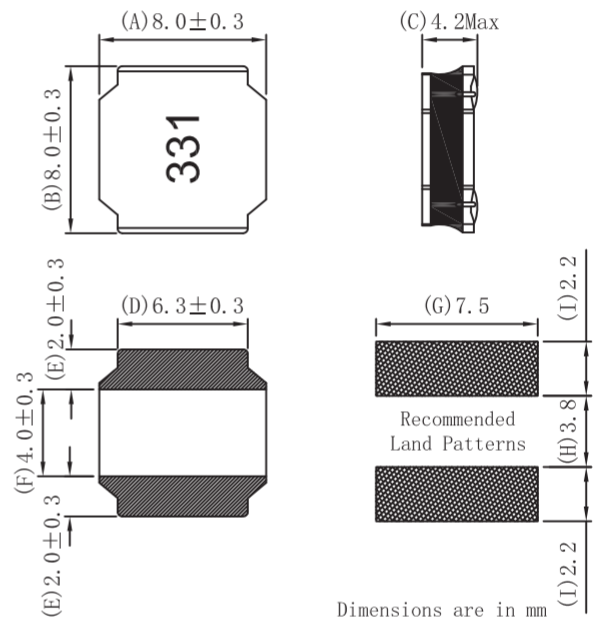
## FEATURES

- RoHS compliant
- Small size (8.0\*8.0mm), low profile (Height: 4.2mm Max)
- Surface mount design
- Magnetic shield construction with magnetic powder resin
- Good EMI
- High saturation current
- Inductance range from 1.0uH to 330uH
- 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)
MDRH8040SG1R0N	1.0	30	8	85	11.00	7.80
MDRH8040SG1R5N	1.5	30	10	63	9.00	7.00
MDRH8040SG2R2N	2.2	30	12	50	7.40	6.30
MDRH8040SG3R3N	3.3	30	17	34	6.50	4.90
MDRH8040SG4R7N	4.7	30	20	30	5.90	4.10
MDRH8040SG5R6N	5.6	30	24	27	5.50	3.90
MDRH8040SG6R8M	6.8	20	28	24	4.55	3.70
MDRH8040SG8R2M	8.2	20	35	23	4.20	3.40
MDRH8040SG100M	10	20	37	22	3.60	3.10
MDRH8040SG150M	15	20	56	16	2.95	2.50
MDRH8040SG220M	22	20	74	13	2.40	2.20
MDRH8040SG330M	33	20	100	12	2.05	1.70
MDRH8040SG470M	47	20	158	8	1.75	1.50
MDRH8040SG680M	68	20	196	7	1.45	1.20
MDRH8040SG101M	100	20	295	6	1.15	1.00
MDRH8040SG151M	150	20	470	5	1.10	0.80
MDRH8040SG221M	220	20	660	4	0.85	0.70
MDRH8040SG331M	330	20	970	3	0.68	0.55
MDRH8040SG471M	470	20	1300	2.1	0.6	0.5
MDRH8040SG681M	680	20	2050	1.7	0.5	0.45
MDRH8040SG102M	1000	20	2800	1.4	0.4	0.35
MDRH8040SG152M	1500	20	5000	1.0	0.32	0.26



## 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 1000 pcs per reel  
Weight 0.92g/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.