

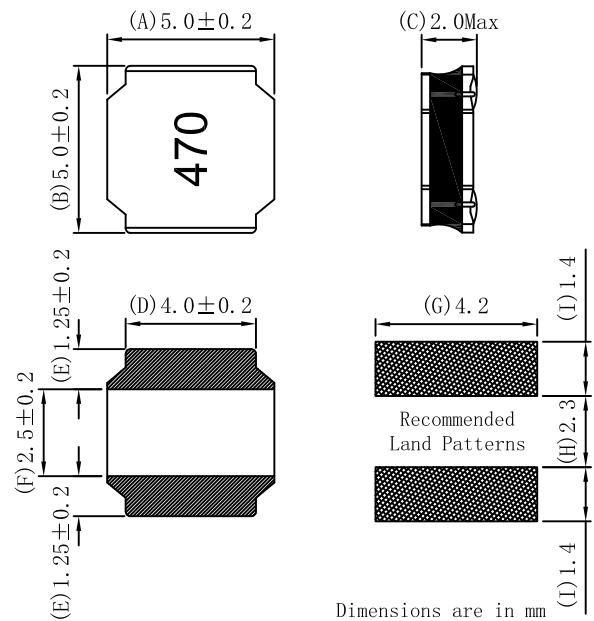
FEATURES

- RoHS compliant
- Small size (5.0*5.0mm), low profile (Height: 2.0mm 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 (μH) | Tolerance (±%) | DCR (mΩ) ±30% | SRF Min (MHz) | Isat (A) | Irms (A) |
|----------------|-----------------|----------------|---------------|---------------|----------|----------|
| MDRH5020SG1R0N | 1.0 | 30 | 20 | 81 | 4.33 | 3.70 |
| MDRH5020SG1R5N | 1.5 | 30 | 26 | 68 | 4.10 | 3.20 |
| MDRH5020SG2R2N | 2.2 | 30 | 38 | 57 | 3.85 | 2.90 |
| MDRH5020SG3R3N | 3.3 | 30 | 46 | 46 | 3.25 | 2.40 |
| MDRH5020SG4R7M | 4.7 | 20 | 65 | 37 | 2.40 | 2.05 |
| MDRH5020SG6R8M | 6.8 | 20 | 92 | 30 | 2.10 | 1.70 |
| MDRH5020SG100M | 10 | 20 | 125 | 24 | 1.80 | 1.50 |
| MDRH5020SG150M | 15 | 20 | 180 | 20 | 1.44 | 1.25 |
| MDRH5020SG220M | 22 | 20 | 250 | 17 | 1.18 | 1.05 |
| MDRH5020SG330M | 33 | 20 | 370 | 13 | 0.97 | 0.83 |
| MDRH5020SG470M | 47 | 20 | 560 | 10 | 0.81 | 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 | 3000pcs per reel |
| Weight | 0.19g/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.