

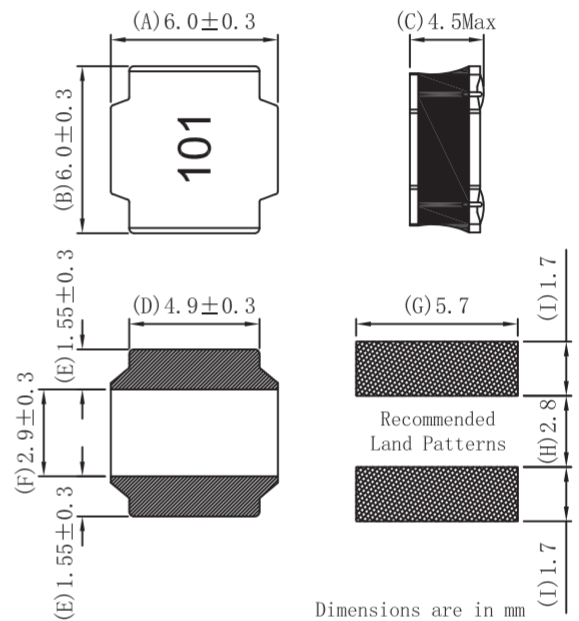
FEATURES

- RoHS compliant
- Small size (6.0*6.0mm), low profile (Height: 4.5mm 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)
MDRH6045SG1R0N	1.0	30	10	110	9.0	5.1
MDRH6045SG1R5N	1.5	30	12	65	8.8	5.0
MDRH6045SG2R2N	2.2	30	13	60	6.5	4.6
MDRH6045SG3R3N	3.3	30	20	45	5.3	3.2
MDRH6045SG4R7N	4.7	30	24	25	4.5	3.0
MDRH6045SG5R6N	5.6	30	31	20	3.7	2.8
MDRH6045SG6R8M	6.8	20	33	14	3.3	2.7
MDRH6045SG100M	10	20	52	12	3.0	2.5
MDRH6045SG150M	15	20	77	10	2.5	1.9
MDRH6045SG220M	22	20	115	8	2.0	1.5
MDRH6045SG330M	33	20	150	7	1.6	1.45
MDRH6045SG470M	47	20	220	6	1.4	1.2
MDRH6045SG560M	56	20	260	5	1.3	1.1
MDRH6045SG680M	68	20	290	4	1.2	0.9
MDRH6045SG101M	100	20	430	3	1.0	0.8



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	0.60g/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% typ from its value without current.
4. Irms is the current that caused a approx 40 °C temperature rise from 25 °C ambient.