

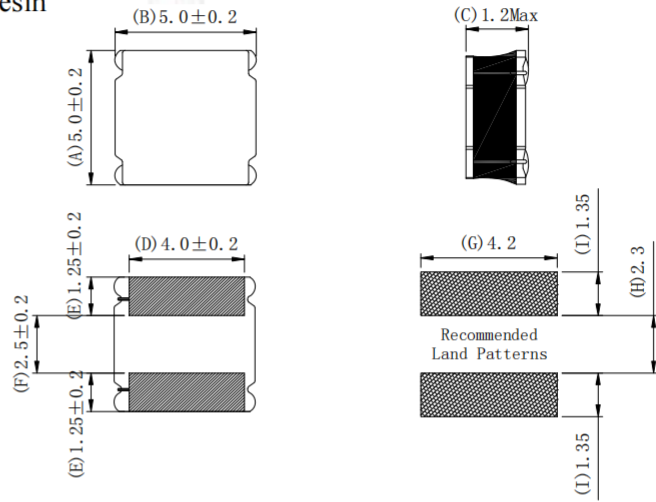
FEATURES

- RoHS compliant
- Small size (5.0*5.0mm), low profile (Height: 1.2mm Max)
- Surface mount design
- Magnetic shield construction with magnetic powder resin
- Good EMI
- Inductance range from 1.00uH to 22uH
- Tape & reel packing
- UL94V-0
- Solder profile acc.J-STD-020D

APPLICATIONS

- DC-DC Converters
- Cell phones
- LCD displays
- Office automotive

Part number	L0 μH	DCR(Ω)		Isat(A)		Irms(A)	
	±20%	MAX	TYP	TYP	MAX	TYP	MAX
MDRH5012SG1R0M	1.00	0.068	0.057	4.40	4.70	2.00	2.40
MDRH5012SG1R5M	1.50	0.086	0.072	3.70	3.80	1.90	2.20
MDRH5012SG2R2M	2.20	0.108	0.090	3.10	3.20	1.70	2.00
MDRH5012SG3R3M	3.30	0.151	0.126	2.40	2.60	1.40	1.70
MDRH5012SG4R7M	4.70	0.197	0.164	2.20	2.30	1.30	1.50
MDRH5012SG6R8M	6.80	0.294	0.245	1.70	1.90	1.00	1.20
MDRH5012SG100M	10.0	0.413	0.344	1.40	1.50	0.85	1.00
MDRH5012SG150M	15.0	0.523	0.436	1.20	1.30	0.80	0.92
MDRH5012SG220M	22.0	0.858	0.780	0.88	0.98	0.60	0.68



Dimensions are in mm

ABSOLUTE MAXIMUM RATINGS

Operating temperature rang -55°C to + 125°C
(Including self te perature rise)

Storage temperature rang -40°C to + 125°C

SOLDERING INFORMATION

Peak reflow temperature 265°C

Pin finish tin

PACKAGING INFORMATION

Tape & Reel

Notes

- Electrical specification at 25°C .
- Inductance tested at 1MHz , 0.25V rms .
- Irms is the current that caused a approximate 40°C temperature rise from 25°C ambient.
- Isat is the DC current at which inductance drop approximately 30% from its value without current.
- The part temperature(ambient+temp .rise)should not exceed 125°C under worst case operating conditions .Circuit design , component placement, PCB trace size and thickness ,airflow and other cooling provisions all affect the part temperature . Part temperature should be verified in the end application

- Electrical specification at 25°C.
- Inductance tested at 100 kHz, 0.25Vrms.
- The DCR value is typical.
- Isat is the DC current at which inductance drop 30%(Max) from its value without current.
- Irms is the current that caused a approx 40P temperature rise from 25°C ambient.