

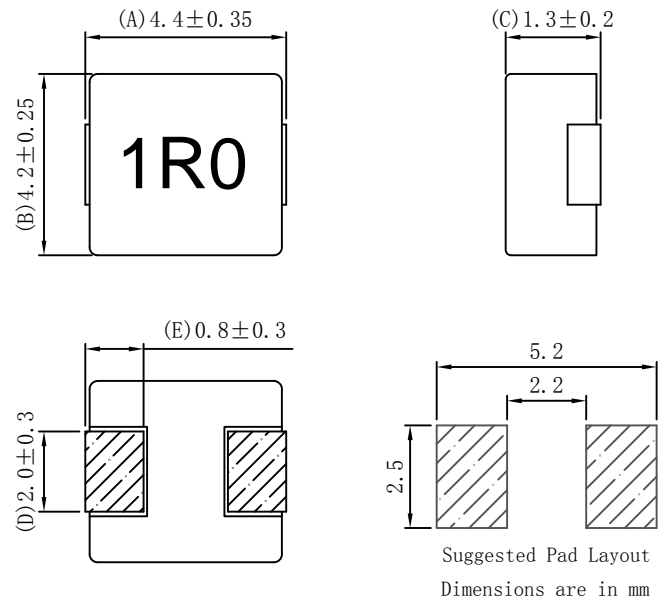
FEATURES

- RoHS compliant,UL94V-0
- Small size (4.75*4.45mm Max),low profile(Height:1.5mm Max)
- Inductance range from 0.22uH to 1.50uH
- Surface mount design
- Magnetic shield construction
- Ultra low buzz noise due to composite construction
- Handle transient current spikes without saturation
- Excellent temperature stability for inductance and saturation
- Tape & reel packing
- Solder profile acc.J-STD-020D

APPLICATIONS

- Low profile ,high current power supplies
- DC/DC converters
- Battery powered devices
- PDA/notebook/desktop/server applications

Part number	Inductance ($\mu\text{H} \pm 20\%$)	DCR (m Ω) @25 $^{\circ}\text{C}$		Irms (A)	Isat (A)
		TYP.	MAX.		
MHA0415NSGR22M	0.22	7.80	9.00	7.00	14.00
MHA0415NSG1R5M	1.50	49.00	63.00	4.00	6.00



ABSOLUTE MAXIMUM RATINGS

Operating temperature rang (Including coil' self temperature rise)	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$
Storage temperature rang	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$

SOLDERING INFORMATION

Peak reflow temperature	250 $^{\circ}\text{C}$
Pin finish	tin

PACKAGING INFORMATION

Tape&Reel	3000pcs per reel
Weight	0.15g/pcs

Notes

1. Electrical specification at 25 $^{\circ}\text{C}$.
2. Inductance tested at 100 kHz, 0.25Vrms.
3. Irms is the current that caused a approximate 40 $^{\circ}\text{C}$ temperature rise from 25 $^{\circ}\text{C}$ ambient.
4. Isat is the DC current at which inductance drop approximately 30% from its value without current.
5. The part temperature(ambient + temp.rise) should not exceed 125 $^{\circ}\text{C}$ under worst case operating conditions.Circuit design,component placement, PWB trace size and thickness,airflow and other cooling provisions all affect the part temperature.Part temperature should be verified in the end application.