

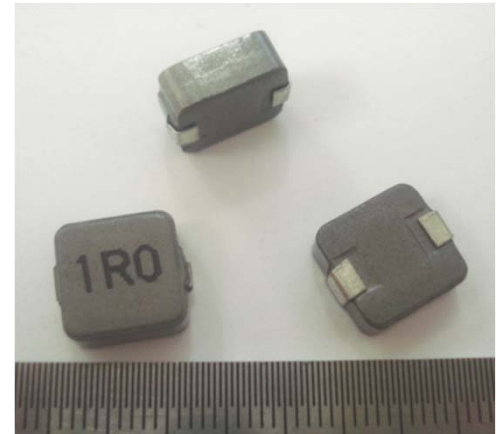


SMHC4020 Series



1. Features:

- 5mm Max. Height Molding Inductor for High Frequency Application
- Inductance Range: 0.36uH to 2.80uH. Custom Values Welcomed
- High Current Capability up to 40.0 Amp for Output Chokes Application
- Ideal for Servers, Workstation Notebooks, VGA cards, and High Density Boards
- Low DC Resistance and Compact Size for High Power Application
- Quantity Per Reel: 500 pcs per 13" Reel
- Operating Temperature Range -55°C to + 130°C



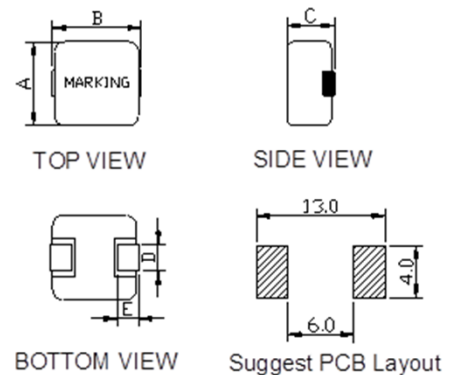
2. Electrical Characteristics:

ITG Part Number	OCL (uH) ±20%	DCR (mΩ) (±10%)	Irms (A) @25°C	L@Irm s (uH) Typ.	Lsat (A) @25°C	L@Lsat (uH) Typ.
SMHC4020-R36MHF	0.36	0.75	32.0	0.295	32.0	0.294
SMHC4020-R47MHF	0.47	1.04	29.0	0.420	32.0	0.407
SMHC4020-R68MHF	0.68	1.70	27.0	0.530	30.0	0.513
SMHC4020-R72MHF	0.72	1.55	28.0	0.600	35.0	0.524
SMHC4020-1R0MHF	1.00	2.30	25.0	0.875	40.0	0.757
SMHC4020-1R5MHF	1.50	2.70	23.0	1.200	30.0	1.076
SMHC4020-2R2MHF	2.20	4.20	17.0	1.625	20.0	1.530
SMHC4020-2R8MHF	2.80	6.00	12.0	2.310	18.0	2.029

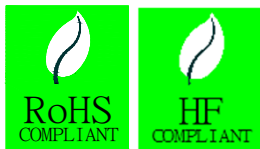
Notes:

1. OCL (Open Circuit Inductance) and L@ Irm s and L @Lsat are measured at: 100KHz, 1.0V @ 25°C.
2. Isat: DC current that causes inductance to drop by approximately 30% from OCL
3. Irm s: DC current that causes an approximate temperature rise (ΔT) of 40°C without core loss. Derating is necessary for AC currents. PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.
4. Inductance and Temperature rise vs. DC bias curve. Please see the next page to get more detail information

3. Mechanical Dimensions (unit:mm):



A ± 0.50	B Max.	C Max.	D ± 0.50	E ± 0.50
10.0	11.5	5.0	3.0	2.5



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4. Inductance vs. Current vs. Temperature

