



SC3013 Series



1. Features of SC3013 Series :

- 0.30" Package SMD high current Inductor
- Low profile 3.5mm maximum height
- Ideal for DC to DC converter, VRM & High density board design
- Low leakage flux, Shielded inductor design
- Suitable for IR reflow and wave solder process
- T & R Qtys: 1,450 pcs on a 13" Reel
- Operating temperature -40°C ~ 150°C
- RoHS and HF Compliant



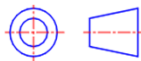
2. Electrical Characteristics of SC3013 Series:

Part Number	L $\pm$ 20% (uH)	DCR $\pm$ 7% (m Ω)	I _{rms} ² (A)	L @ I _{rms} (uH)	I _{max} ³ (A)	L @ I _{max} (uH)	D (mm)
SC3013-R10MHF	0.11	0.45	35.0	0.09	49.0	0.07	8.9
SC3013-R27MHF	0.27	1.13	23.0	0.21	33.0	0.19	8.9
SC3013-1R2MHF	1.22	5.70	13.0	0.95	17.5	0.82	8.3

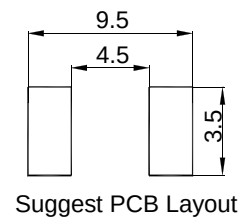
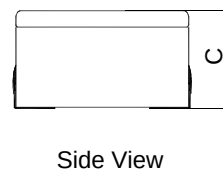
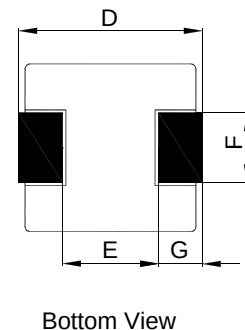
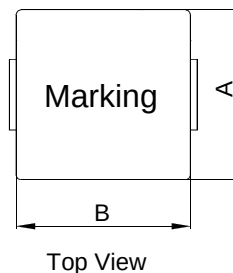
3. Mechanical Dimensions of SC3013 (unit: mm):

A	B	C	D	E	F	G
± 0.30	± 0.30	Max.	Max.	Ref.	Ref.	Ref.
7.4	7.4	3.5	See Table Above	5.20	2.80	1.30

Third Angle Projection:



Part Marking:
 Rxx x: xx is inductance value in uH(R:decimal point),
 x is special code.
 YYWW: Date Code



Test Condition:

1. Test condition 300KHz, 0.10V_{rms} at 25°C
2. I_{rms}: DC current rating at 40°C temperature rise (typical)
3. I_{max}: DC current rating at 100°C temperature rise (typical)

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Tokyo 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision D : December 14, 2015

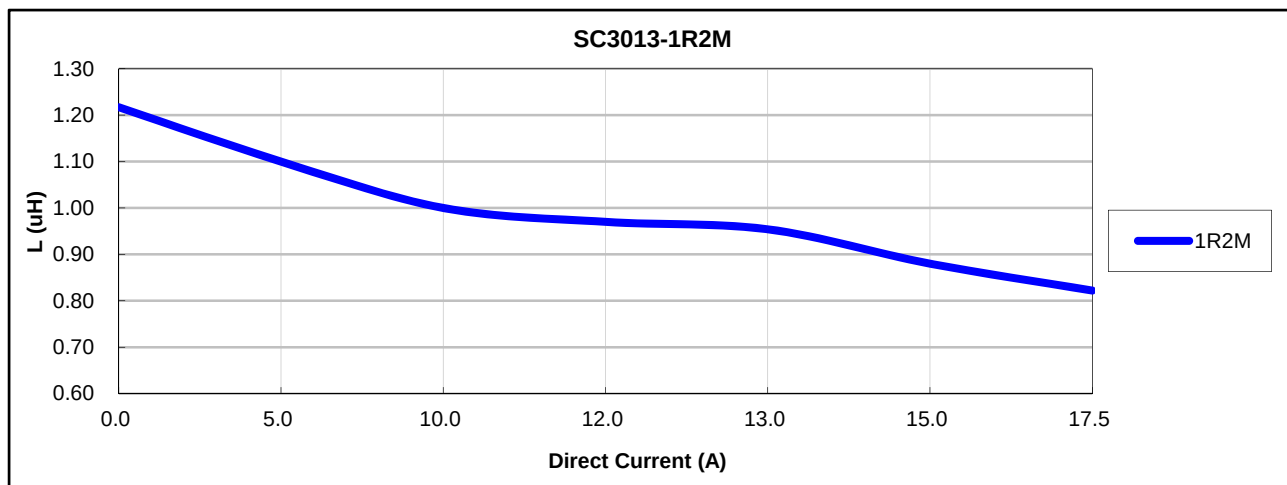
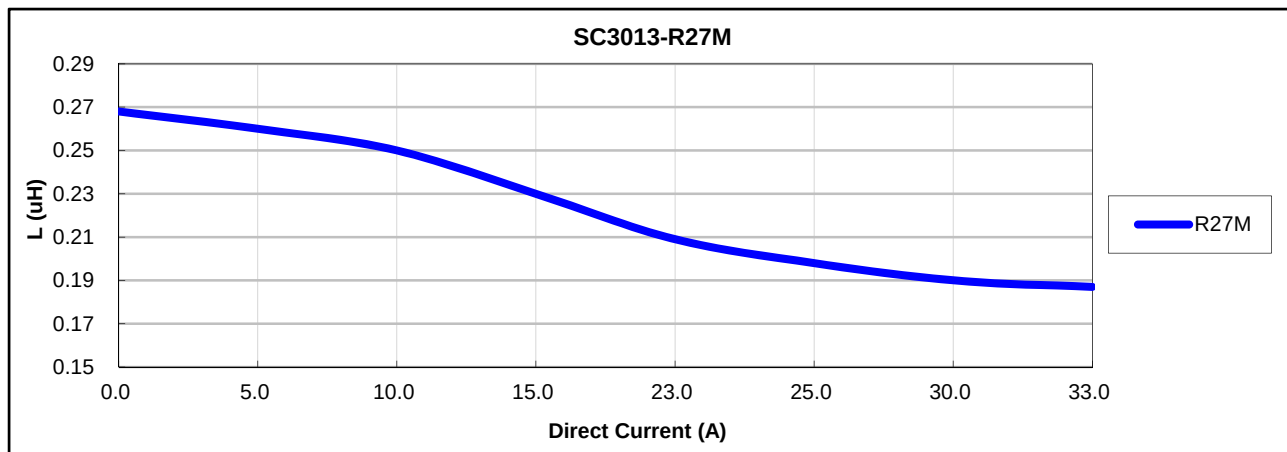
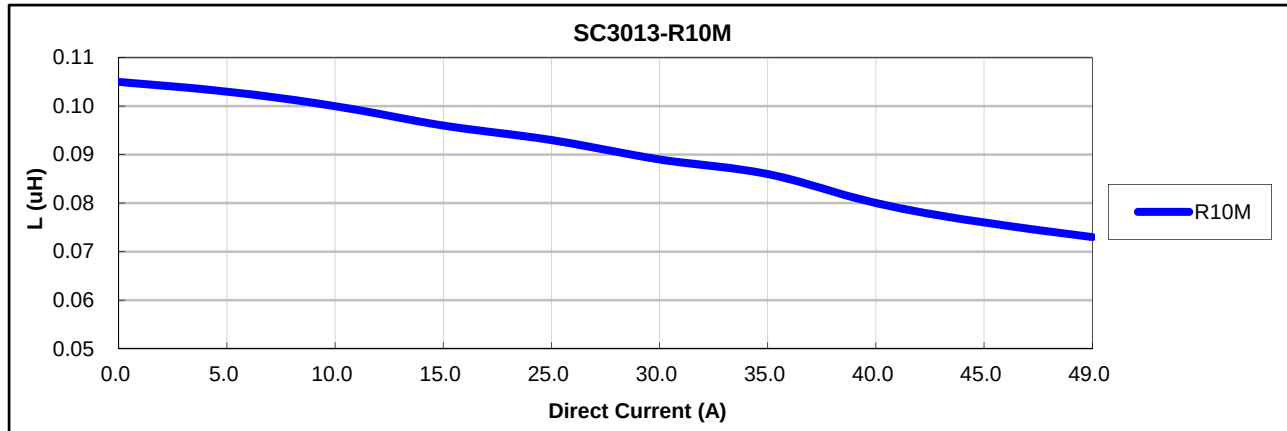
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. SC3013 Family DC Bias Curve



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