



SC3011 Series



1. Features of SC3011 Series :

- 0.30" Package SMD high current inductor
- Low profile 3.0mm 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: 1,700pcs on a 13" Reel
- RoHS and HF Compliant



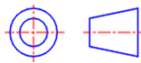
2. Electrical Characteristics of SC3011 Series:

Part Number	L $\pm$ 20% (μ H)	DCR $\pm$ 7% (m Ω)	I _{rms} (A)	L @ I _{rms} (μ H)	I _{max} (A)	L @ I _{max} (μ H)	D (mm)
SC3011-R10MHF	0.11	0.63	32.0	0.09	46.0	0.07	9.3
SC3011-R30MHF	0.30	2.10	23.0	0.24	34.0	0.20	8.9
SC3011-R56MHF	0.56	3.70	15.0	0.44	26.5	0.37	8.9
SC3011-R92MHF	0.91	7.00	13.0	0.73	18.0	0.65	8.3
SC3011-1R3MHF	1.35	8.45	12.0	1.06	17.0	0.93	8.3

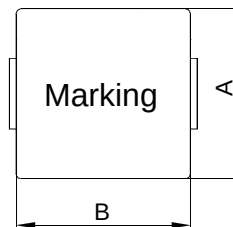
3. Mechanical Dimensions (unit:mm):

A	B	C	D	E	F	G
± 0.30	± 0.30	Max.	Max.	Ref.	Ref.	Ref.
7.4	7.4	3.0	See Table Above	5.20	2.80	1.30

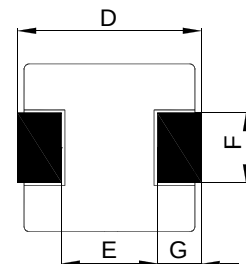
Third Angle Projection:



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



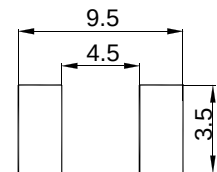
Top View



Bottom View



Side View



Suggest PCB Layout

Test Condition:

1. Test condition: 300KHz, 0.10Vrms at 25°C
2. I_{rms}: DC current rating at 40°C temperature raise (typical)
3. I_{max}: DC current rating at 100°C temperature rise (typical)
4. Operating temperature -40°C ~ 150°C

● 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 E: January 15, 2016

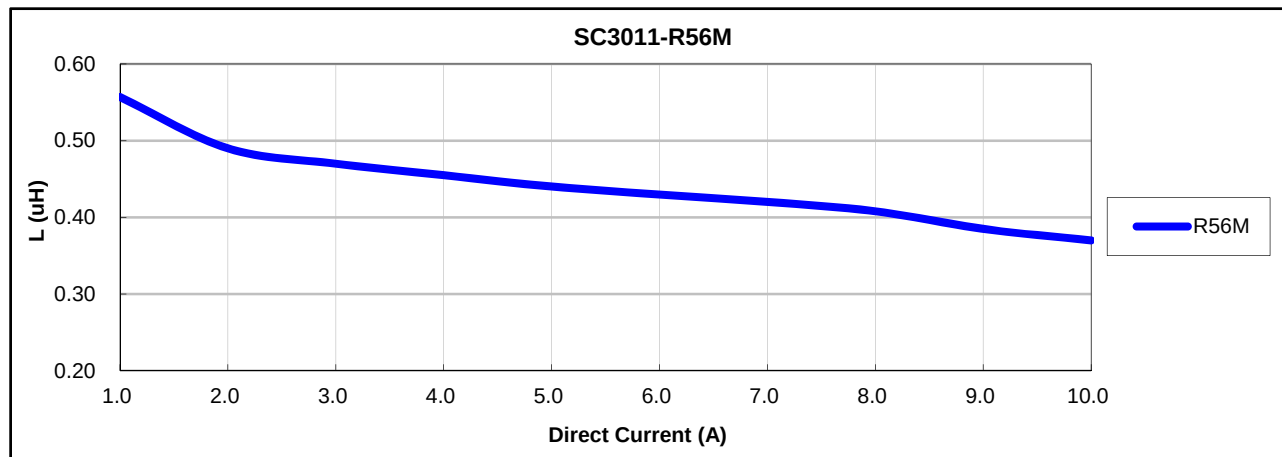
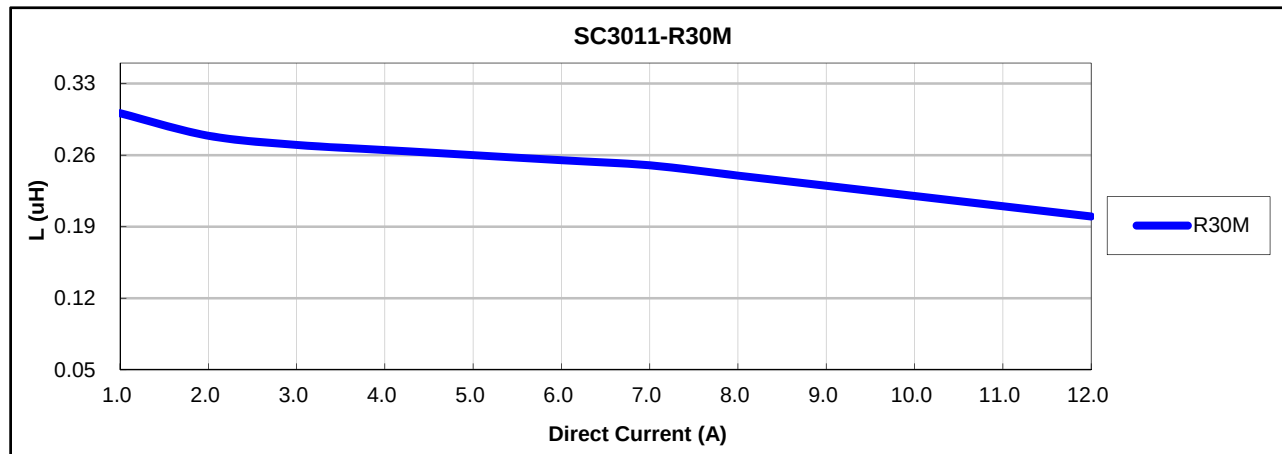
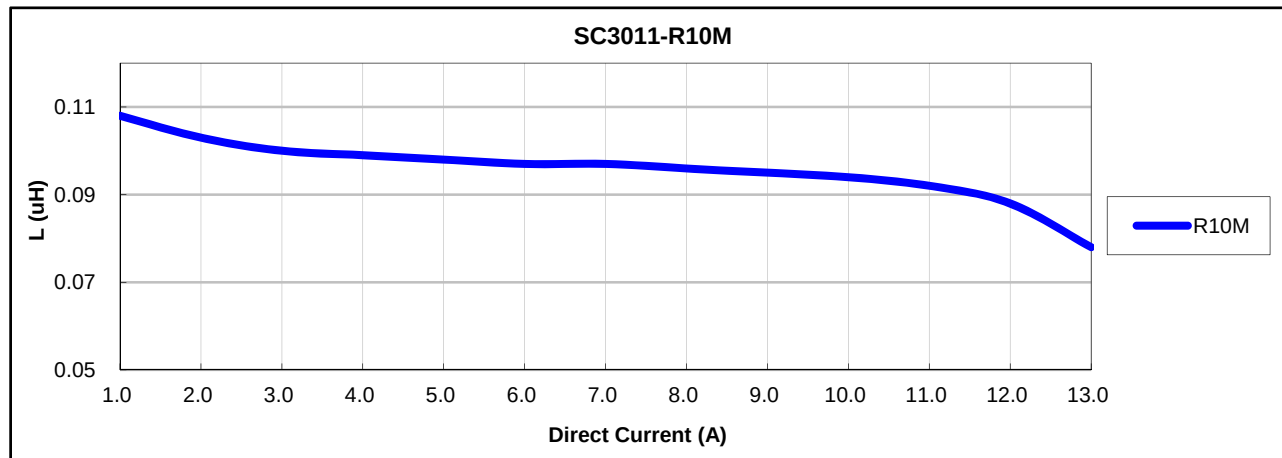
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. SC3011 Family DC Bias Curve



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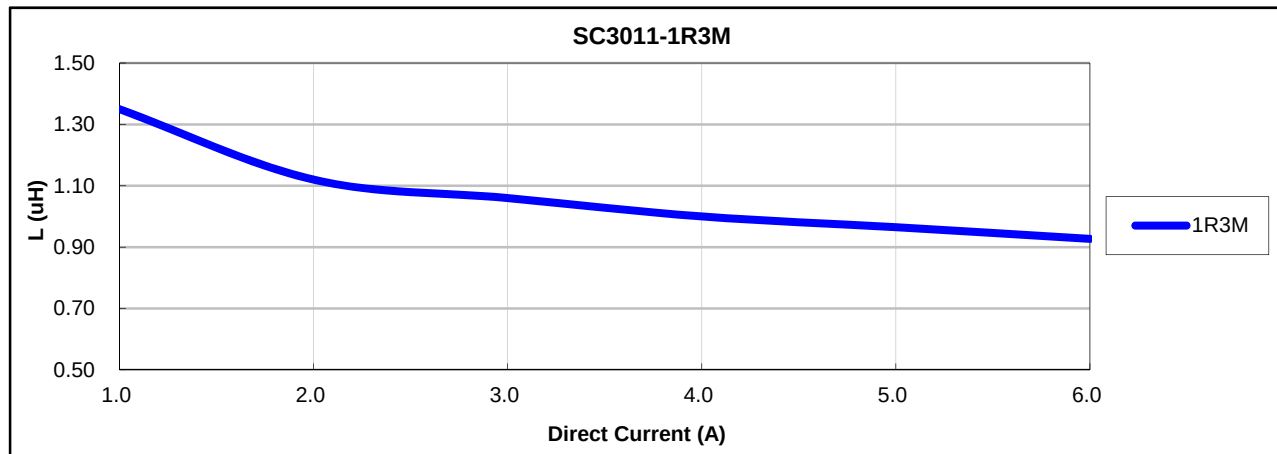
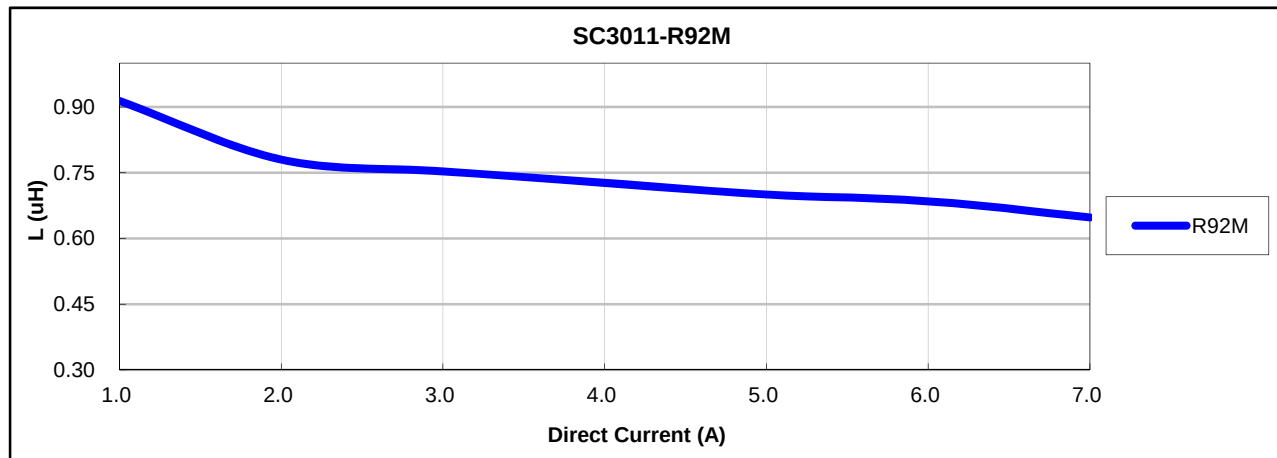
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