

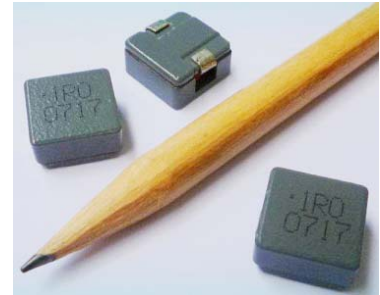


SC5032 Series



1. Features of SC5032 Series :

- 0.30" Package SMD Power Inductor
- Low profile 4.0mm 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: 1,200pcs on a 13" Reel
- RoHS and HF Compliant.



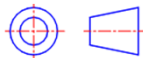
2. Electrical Characteristics of SC5032 Series:

Part Number	L $\pm 20\%$ (uH)	DCR $\pm 7\%$ (m Ω)	I _{rms} (A)	L @ I _{rms} (uH)	I _{max} (A)	L @ I _{max} (uH)
SC5032-1R5MHF	1.5	1.42	25.0	1.20	40.0	0.96
SC5032-2R8MHF	2.8	2.50	20.0	2.15	30.0	1.75
SC5032-3R8MHF	3.8	3.50	18.0	2.80	25.0	2.38
SC5032-6R2MHF	6.2	6.00	14.0	4.70	22.0	3.65
SC5032-7R5MHF	7.5	6.57	12.0	5.80	20.0	4.40
SC5032-100MHF	10.0	9.50	10.0	7.90	17.0	6.00

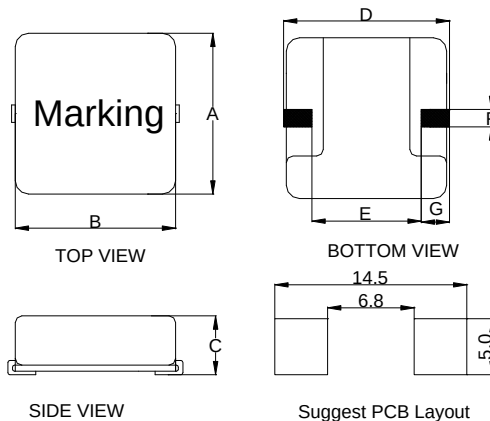
3. Mechanical Dimensions of SC5032 (unit:mm):

A	B	C	D	E	F	G
± 0.4	± 0.4	Max.	Max.	Ref.	Ref.	Ref.
12.6	12.6	8.0	14.0	7.5	2.3	2.7

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, 0.25Vrms, 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)
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 C: February 8, 2016

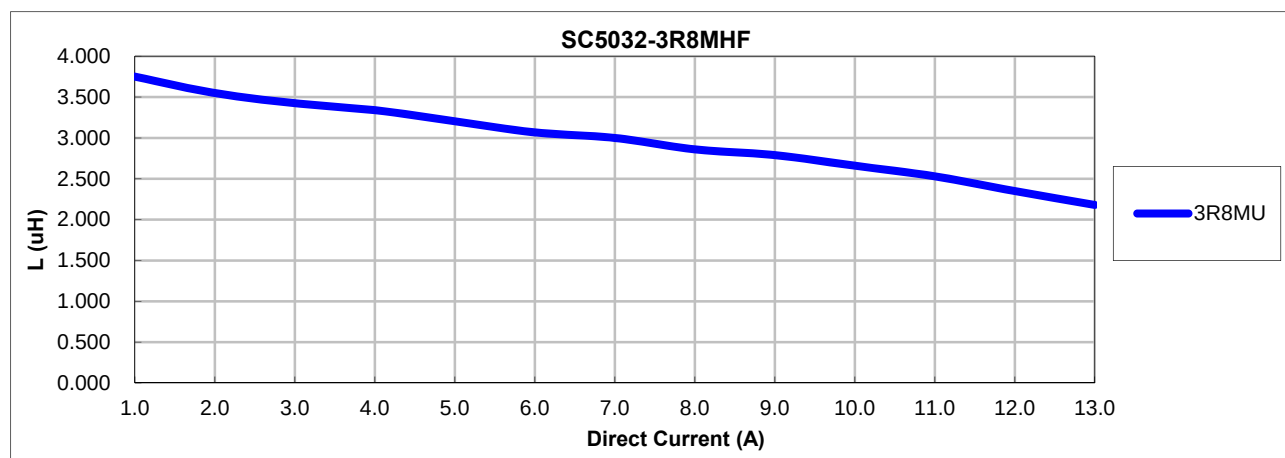
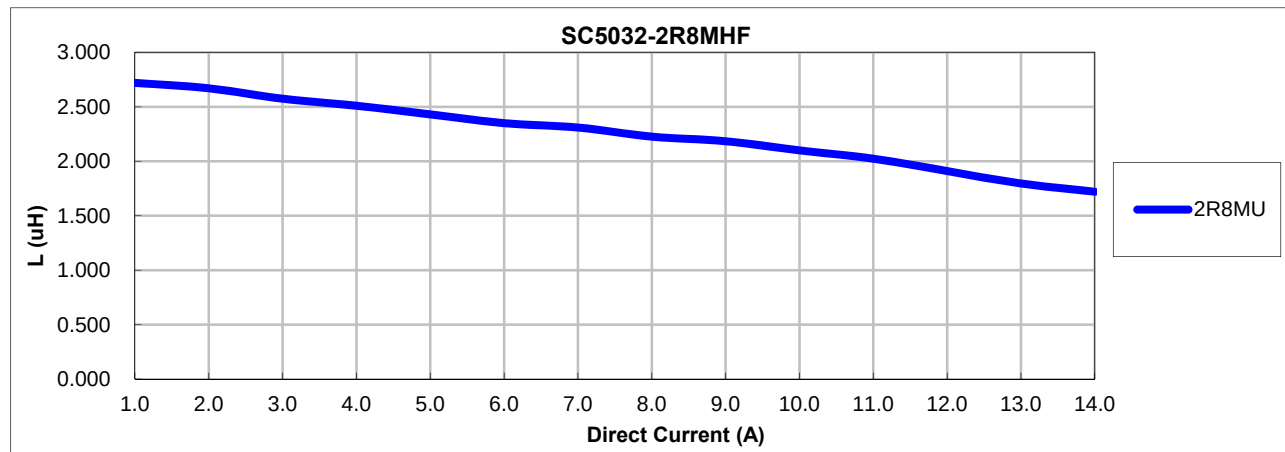
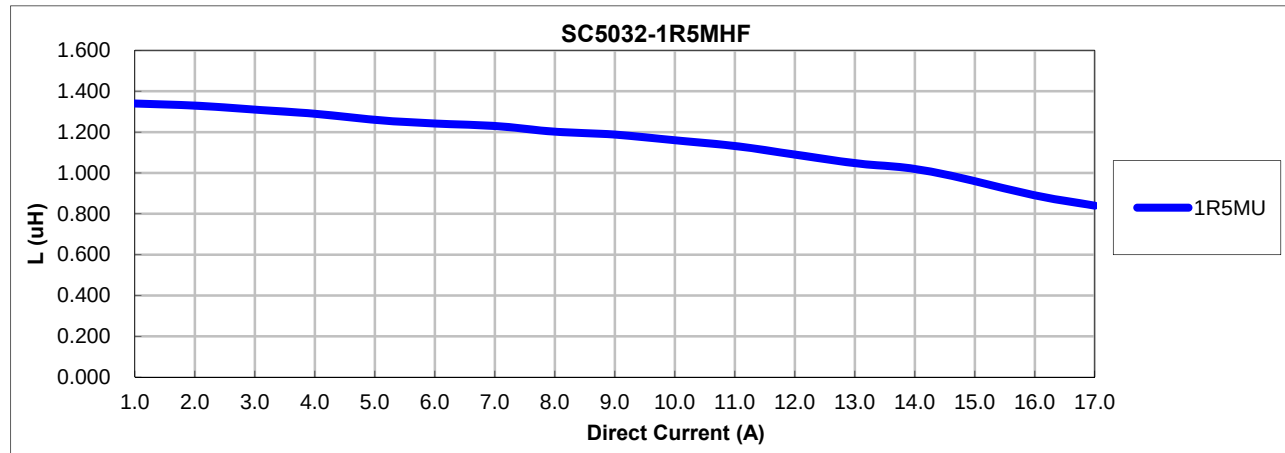
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



SC5032 Series



4. SC5032 Family DC Bias Curve



● 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 C: February 8, 2016

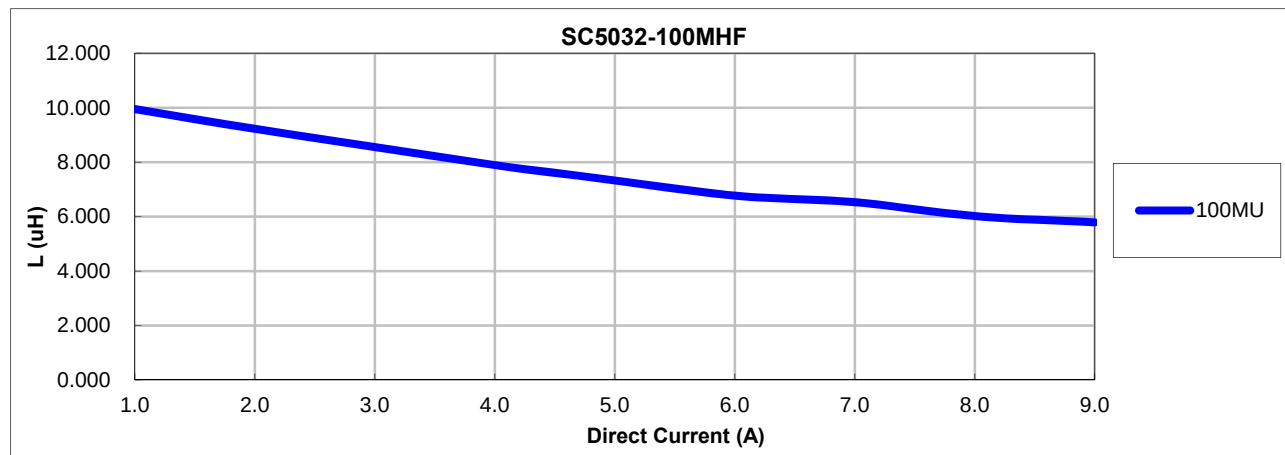
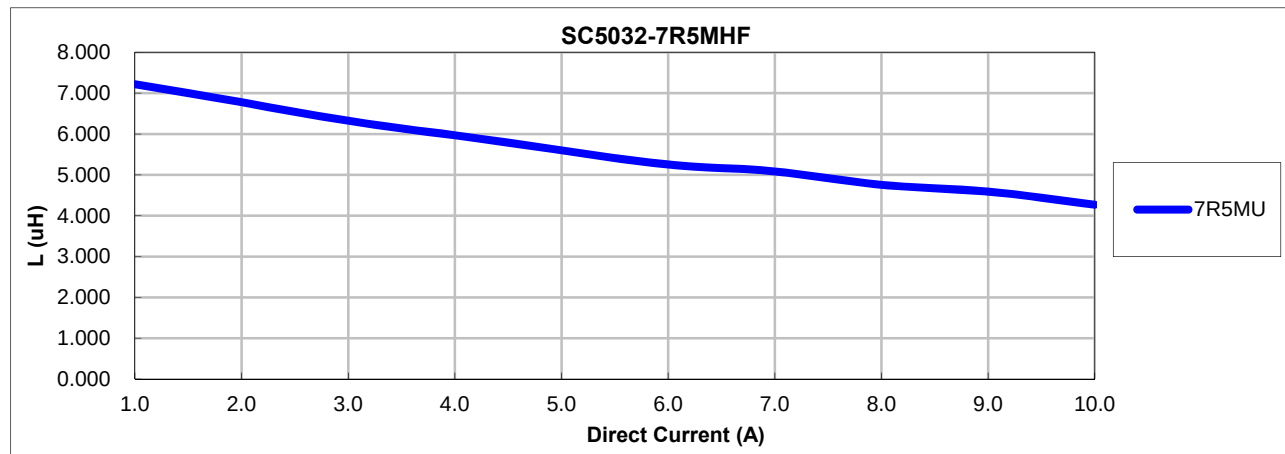
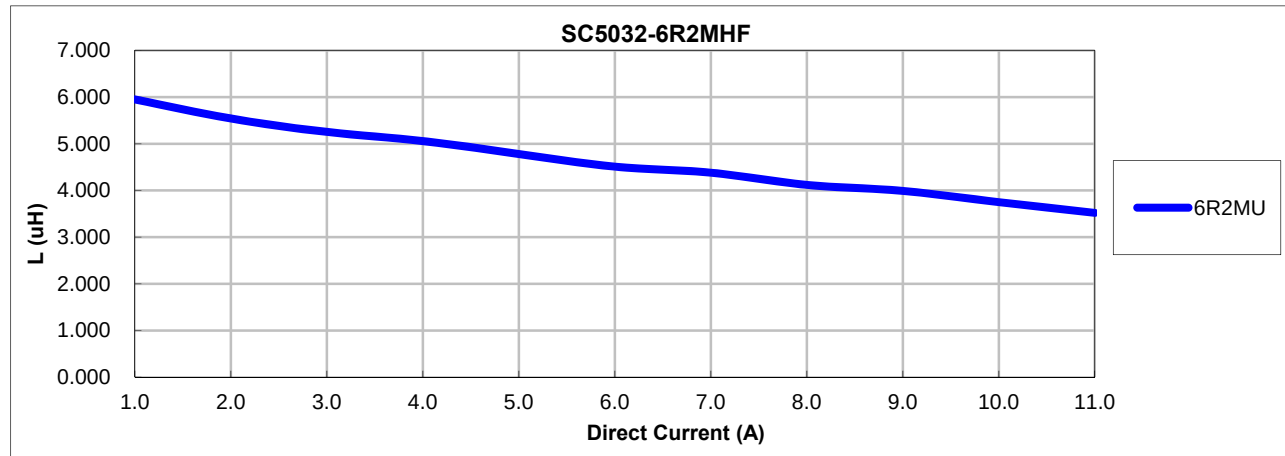
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



SC5032 Series



4. SC5032 Family DC Bias Curve



● 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 C: February 8, 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.