



# SC7232 Series SMD High Current Inductor

[For new designs, we recommend SC2511 (see page 2)]

## FEATURES:

- 0.25" package SMD power inductor
- Ideally for DC to DC converter, VRM & high density board design.
- Operating up to 3 MHz application
- Low leakage flux
- Low profile
- Operating temperature: -40<sup>0</sup> to 150<sup>0</sup> C
- Suitable for IR reflow and wave solder process

Part Number	A ±0.4	B ±0.4	D ±0.4	E typical	F ±0.4	G ±0.4	Fig
SC7232	7.2	6.6	4.3	2.8	3.2	N/A	1
SC7232	6.8	6.8	4.5	1.3	3.2	7.1	2



Fig 1.

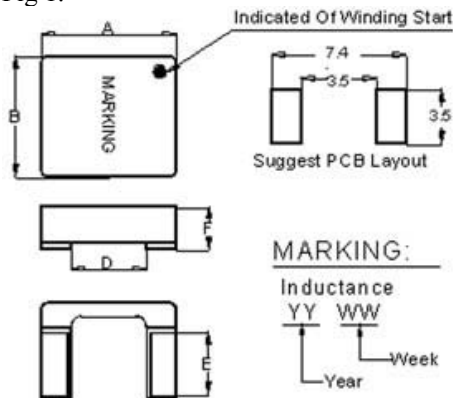
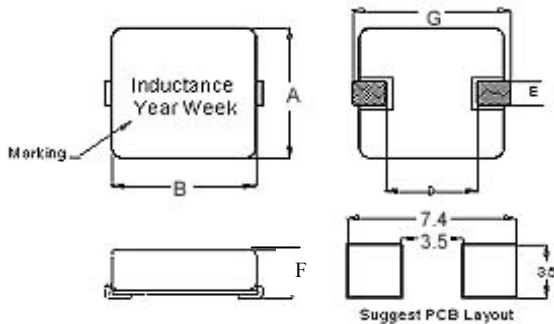


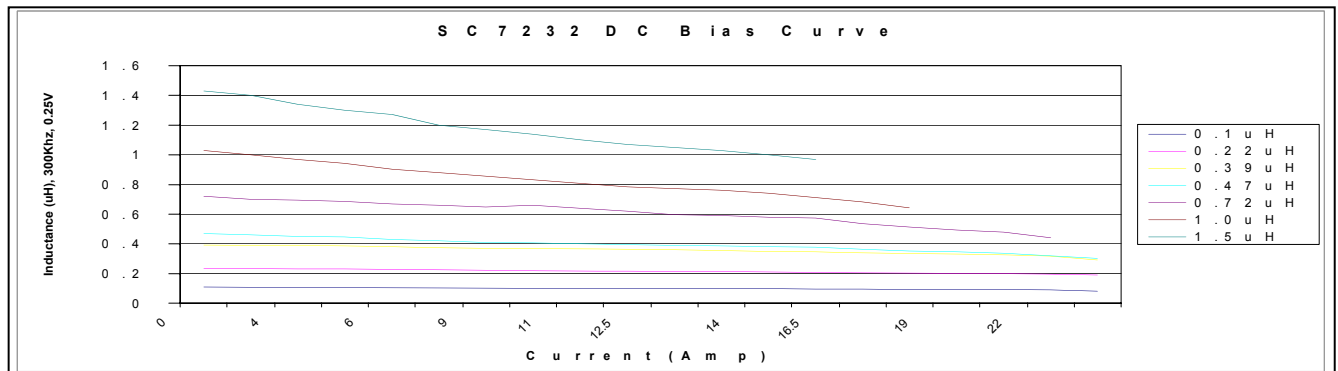
Fig 2



Part Number	L $\mu$ H +20%	DCR $\pm$ m $\Omega$ 7%	I <sub>rms</sub> Amps	L @ I <sub>rms</sub>	I <sub>dc</sub> max. Amps	L @ I <sub>max</sub>	Fig
SC7232-R10M	0.10	1.02	22	0.09	32	0.08	1
SC7232-R22M	0.22	1.50	17	0.20	28	0.19	1
SC7232-R47M	0.47	2.80	15	0.37	25	0.30	1
SC7232-R72M	0.72	7.48	12.5	0.60	22	0.44	1
SC7232-1R0M	1.0	7.80	10	0.85	15	0.72	1
SC7232-1R5M	1.5	8.80	9	1.10	14	1.00	1
SC7232-2R2M	2.2	10.40	8	1.45	13	1.10	2
SC7232-3R0M	3.0	22.20	6.5	2.35	8.5	2.10	1

### Notes:

- 1) Inductance measure condition: 300 KHz & 600 KHz, 0.25V, 25<sup>0</sup>C
- 2) I<sub>rms</sub>: DC current rating at 40<sup>0</sup> C temperature raise (typical)
- 3) I<sub>max</sub>: DC Current rating with max. of 100<sup>0</sup>C temperature raise
- 4) DC Bias is measured at 300KHz, 0.25V, 25<sup>0</sup>C
- 5) Tape & Reel QTYS= 1500 pcs per reel
- 6) P/N SC7232-R10M is the replacement P/N for SC2912-R11M



Inter-Technical, LLC, PO Box 535, 175 Clearbrook Road, Elmsford, NY 10523

Phone: 914-347-2474  
Fax: 914-347-7230

[www.inter-technical.com](http://www.inter-technical.com)  
[sales@inter-technical.com](mailto:sales@inter-technical.com)

Rev. F May 5, 2004

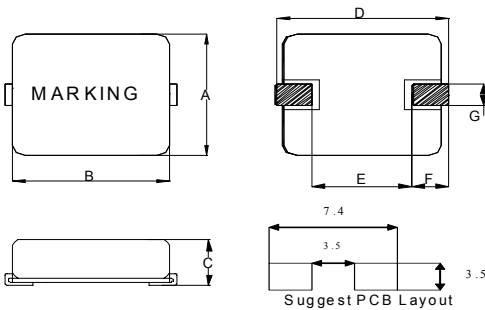
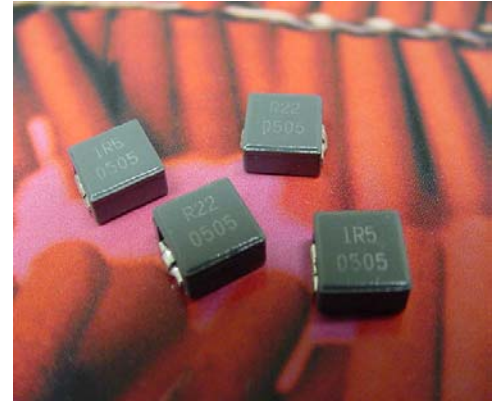


# SC2511 Series SMD Power Inductor



## FEATURES:

- **LOW PROFILE 3mm max height** SMD power inductor
- 0.25" Foot Print, 6.8 x 6.8mm Max.
- Ideal for DC to DC converter, VRM & High Density Board Design
- Operating up to 3 MHz application
- Low leakage flux
- Operating temperature: -40°C to +150°C
- Suitable for IR reflow and wave solder process

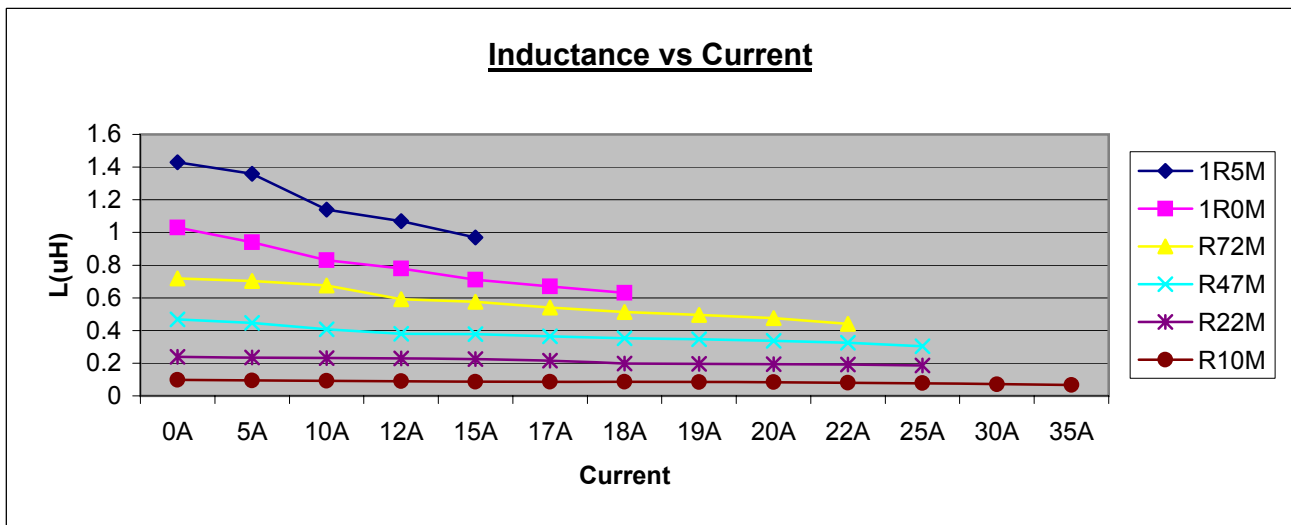


Part Number	L $\mu$ H $\pm$ 20%	DCR $\pm$ m $\Omega$ 7%	I <sub>rms</sub> Amp	L @ I <sub>rms</sub>	I <sub>dc</sub> max. Amps	L @ I <sub>max</sub>
SC2511-R10M	0.10	1.00	23.0	0.088	39.0	0.070
SC2511-R22M	0.22	1.50	20.5	0.195	35.0	0.167
SC2511-R47M	0.47	2.60	16.0	0.270	28.0	0.220
SC2511-R72M	0.72	4.20	14.0	0.584	22.0	0.440
SC2511-1R0M	1.00	8.00	12.0	0.838	16.5	0.753
SC2511-1R5M	1.50	9.25	11.0	1.147	15.0	1.017

## Note:

1. Inductance measure condition 300 Khz 0.25V, 25°C
2. I<sub>rms</sub>: DC current rating at 40°C Temperature Raise
3. I<sub>max</sub>: DC current rating with max of 100°C Temperature Raise
4. T & R Quantity: 1500 pcs.

Dimensions					
A	B	C	D	E	G
6.5 $\pm$ 0.3	6.5 $\pm$ 0.3	3.0	7.0 $\pm$ 0.4	3.65 (ref)	2.70(ref)



US 1 914 347 2474 • Shenzhen 86 755 8418 6263 • Shanghai 86 21 5424 5141 • Hong Kong 852 9688 9767

<http://www.inter-technical.com>

Rev. A February 16, 2005