



Shielded Power Inductors TL6030SG/TL6060SG

Features:

- High Current Shielded Power Inductor
- Low DC Resistance
- Operating Temperature: -40°C to +165°C
- Storage Temperature: -40°C to +165°C



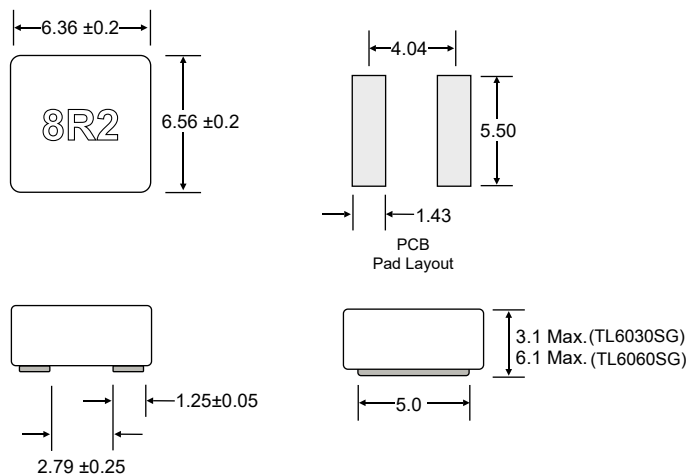
Electrical Specifications @25°C

Part Number	Inductance ¹ (μ H \pm 20%)	DCR (m Ω) (Typ. /Max.)	SRF (MHz)	Isat ² (Amp)	Irms (A) (20°C / 40°C)
TL 6030SG -R18M	0.18	1.59 / 1.75	141	39	24 / 32
TL 6030SG -R33M	0.33	2.30 / 2.53	89	30	20 / 25
TL 6030SG -R56M	0.56	3.01 / 3.31	61	29	17 / 22
TL 6030SG -1R0M	1	5.62 / 6.18	50	23	13 / 18
TL 6030SG -1R2M	1.2	6.82 / 7.5	43	22	12 / 16
TL 6030SG -1R8M	1.8	9.57 / 10.52	34	18.2	10 / 14
TL 6030SG -2R2M	2.2	12.7 / 13.97	30	15.9	7 / 10
TL 6030SG -3R3M	3.3	19.92 / 20.81	26	12.2	6 / 8
TL 6060SG -4R7M	4.7	13.10 / 14.40	21	10.5	8 / 11
TL 6060SG -5R6M	5.6	14.46 / 15.90	20	9.9	7.5 / 10
TL 6060SG -6R8M	6.8	18.90 / 20.80	18	9.2	7 / 9
TL 6060SG -8R2M	8.2	24.0 / 26.40	16	8.4	6 / 8
TL 6060SG -100M	10	27.0 / 29.82	14	7.6	5 / 7
TL 6060SG -150M	15	39.77 / 43.75	11	5.8	4.5 / 6
TL 6060SG -220M	22	55.12 / 60.63	9	5.6	3.6 / 5

Note:

- 1) Inductance measured at 100KHz 0.1Vrms, 0Adc
- 2) DC current that causes inductance to drop 30% from it's initial value.
- 3) Current that causes temperature rise from 25°C ambient.

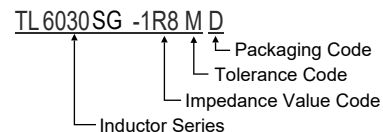
Dimensions



Schematic



Part Numbering

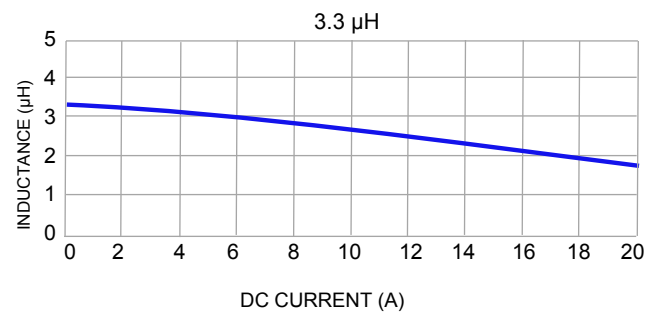
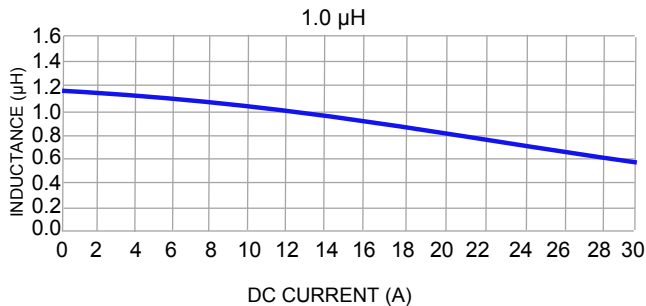
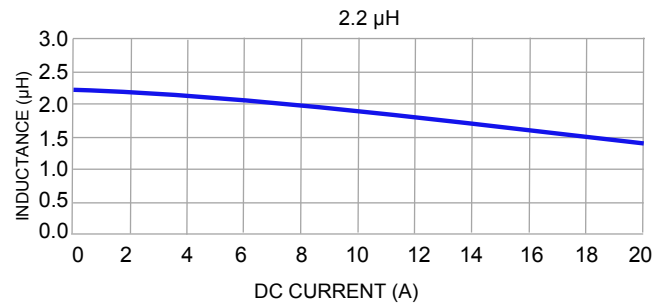
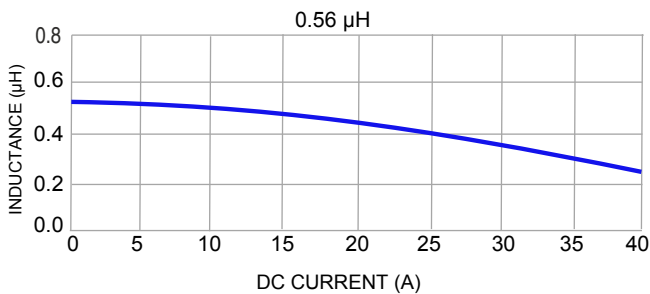
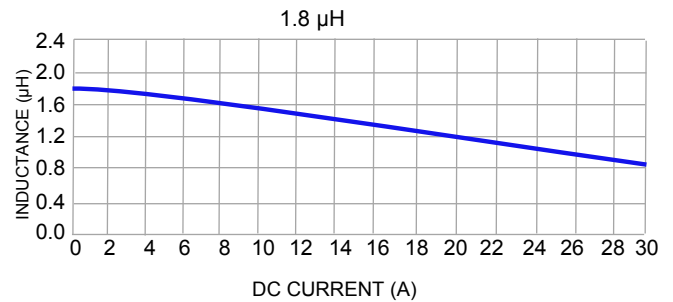
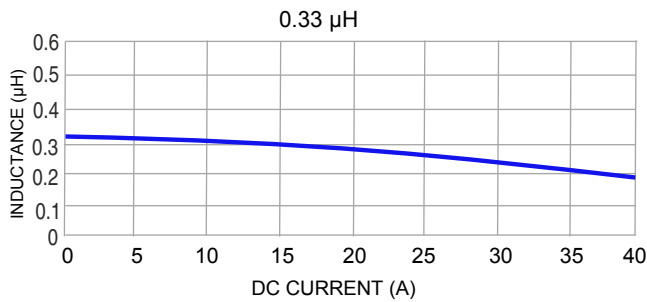
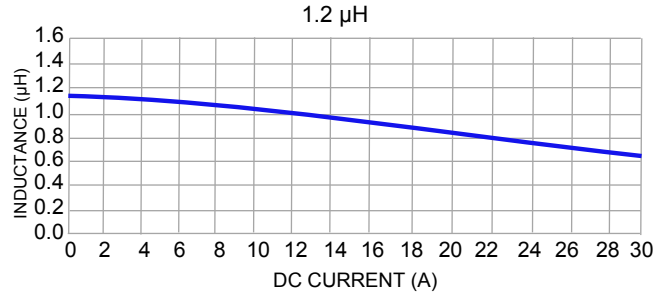
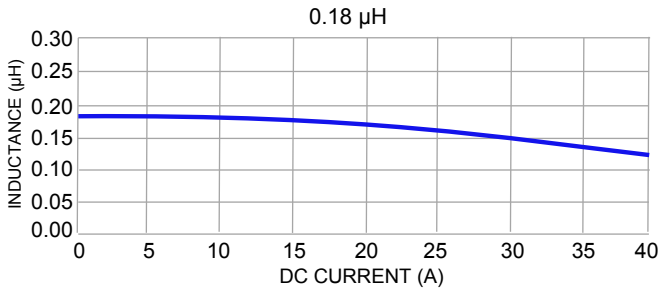


- Electrode: Sn Plating
- Resistance to solder heat: 260°C (Reflow)
- Ordering Information:
TL 6030SG -xxxMD - 1500pcs (13" reel)
TL 6060SG -xxxMD - 750pcs (13" reel)
- Weight:
0.65gms (TL6030SG)
1.25gms (TL6060SG)



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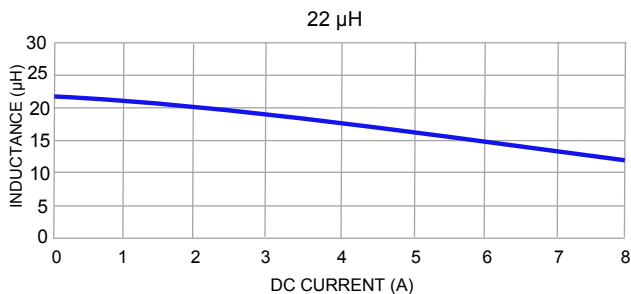
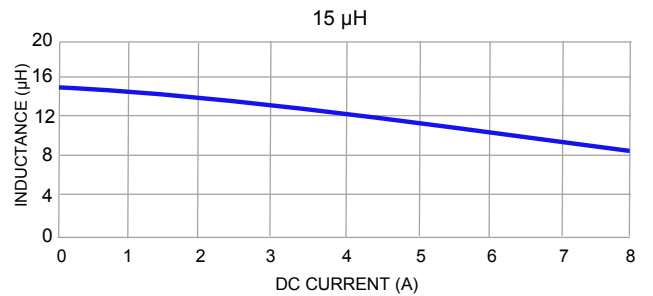
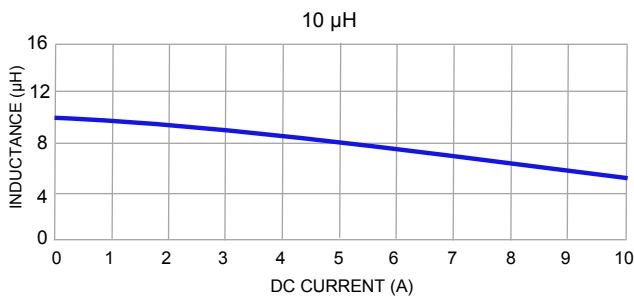
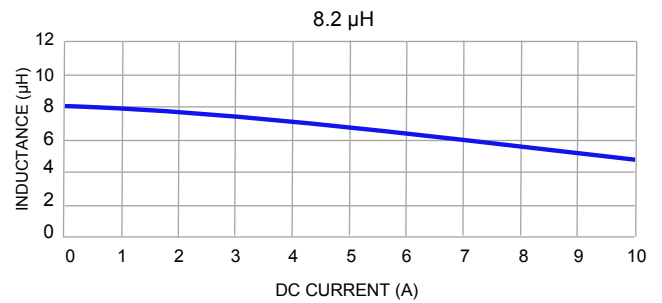
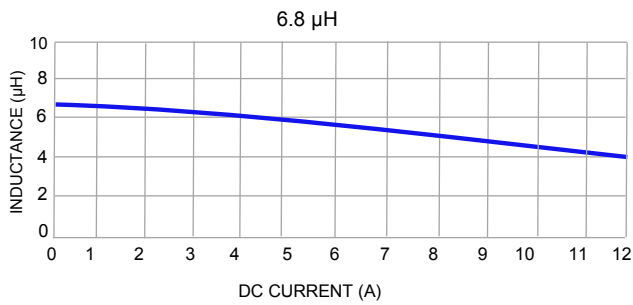
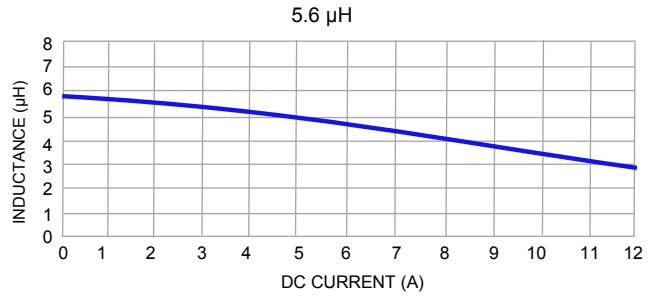
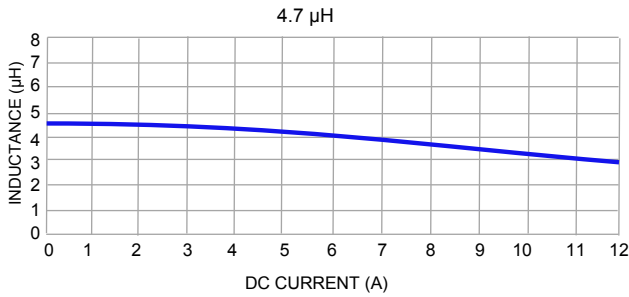
INDUCTANCE vs CURRENT





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INDUCTANCE vs CURRENT





tesla
MAGNETICS INC.



Shielded Power Inductors TL6030SG/TL6060SG

Inductance vs Frequency

