



Shielded Power Inductor TL1060SG

Features:

- High Current Shielded Power Inductor
- For Medium-GHz Band Applications
- 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 ($\mu\text{H} \pm 20\%$)	DCR (m Ω) (Typ. /Max.)	SRF (MHz)	Isat ² (Amp)	Irms (A) (20°C / 40°C)
TL1060SG-R18M	0.18	0.50 / 0.55	68	120	28.8 / 46.0
TL1060SG-R40M	0.40	0.80 / 0.88	60	82	25.9 / 36.8
TL1060SG-R68M	0.68	1.35 / 1.50	51	52	22.4 / 33.9
TL1060SG-1R2M	1.2	2.50 / 2.75	44	43	17.9 / 26.3
TL1060SG-1R5M	1.5	3.00 / 3.30	36	36	16.0 / 24.4
TL1060SG-2R2M	2.2	4.50 / 4.95	25	32	13.9 / 20.0
TL1060SG-3R3M	3.3	7.20 / 7.92	19	26	11.2 / 16.8
TL1060SG-4R7M	4.7	9.75 / 10.72	16	25	8.5 / 14.0

Note:

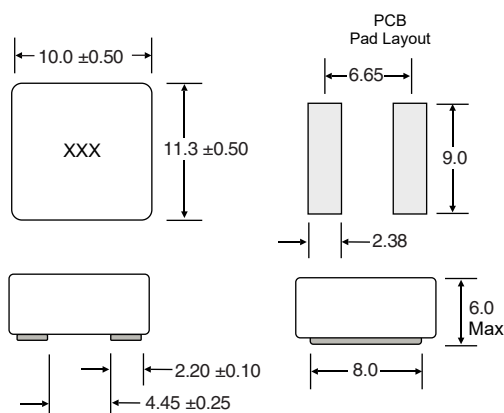
1) Inductance measured at 100KHz 0.1Vrms, 0Adc

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

All Dimensions are in mm.



Part Number	Terminal thickness Typ. (mm)
TL1060SG-R18M	1.0
TL1060SG-R40M	0.80
TL1060SG-R68M	0.60
TL1060SG-1R2M	0.40
TL1060SG-1R5M	0.40
TL1060SG-2R2M	0.30
TL1060SG-3R3M	0.20
TL1060SG-4R7M	0.20

Schematic



Part Numbering

TL1060SG -1R5MD

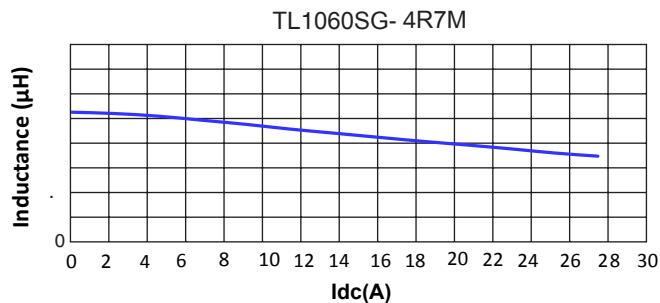
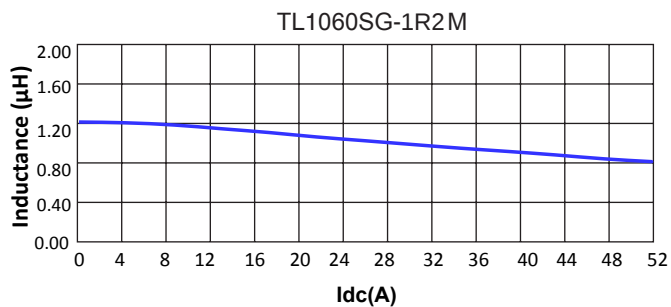
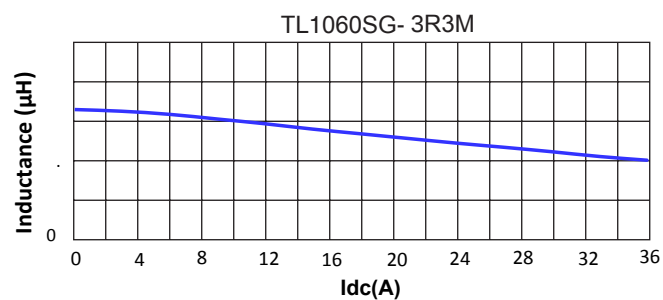
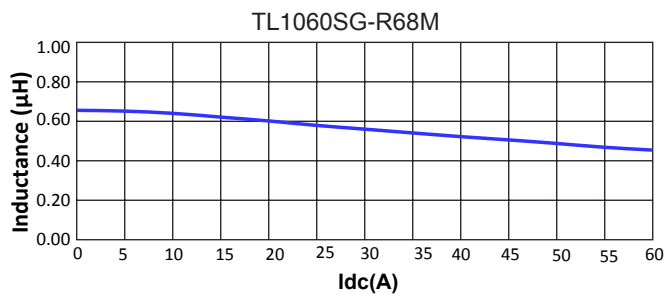
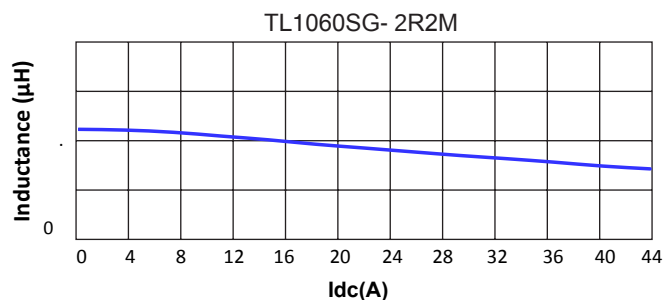
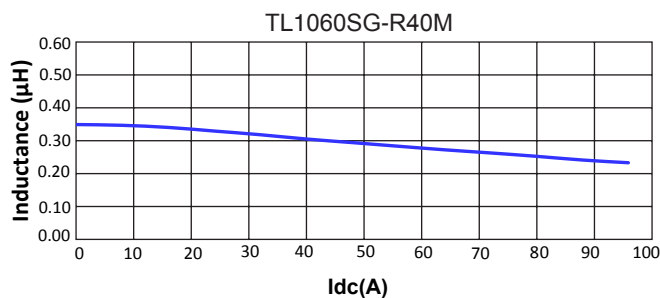
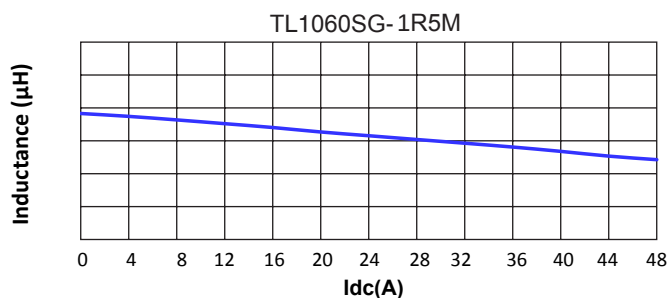
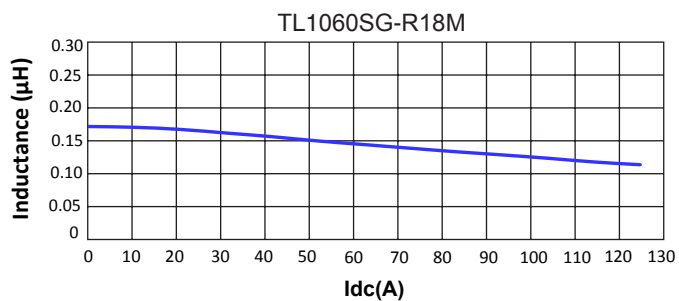
↑ Inductor Series ↑ Impedance Value Code ↑ Tolerance Code ↑ Packaging Code

- Electrode: Sn Plating
- Resistance to solder heat: 260°C (Reflow)
- Ordering Information:
TL1060SG-xxxMD - 600pcs (13" reel)
- Weight:
3.65gms



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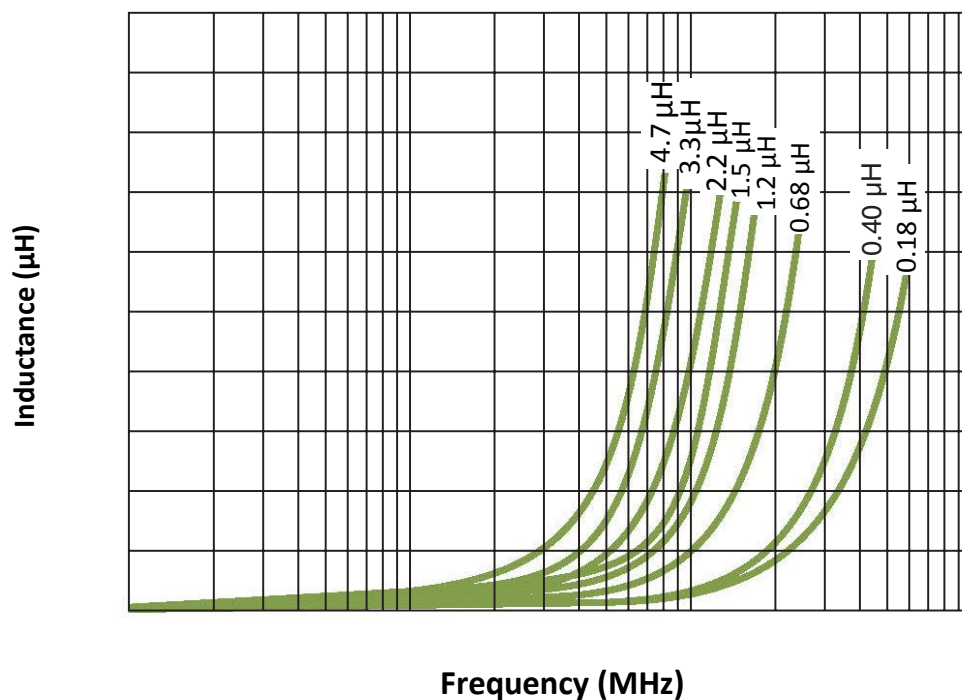
INDUCTANCE vs CURRENT





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Inductance vs Frequency



ESR vs Frequency

