



High Current Shielded Inductors TL4040SG11

FEATURES:

- ⬇ Height 4.0 mm
- ⬇ Operating temperature range - 55 °C to + 125 °C
- ⬇ Frequency range up to 1.0 MHz
- ⬇ RoHS2 Compliant, Halogen Free



Specifications(25 °C):

Part ⁽¹⁾ Number	INDUCTANCE ⁽²⁾	DCR TYP. (mΩ)	DCR MAX. (mΩ)	HEAT RATING CURRENT (A) ⁽³⁾	SATURATION CURRENT(A) ⁽⁴⁾
TL4040SG11-R19M	0.19	0.70	0.80	40	46
TL4040SG11-R22M	0.22	0.85	0.95	33	44
TL4040SG11-R24M	0.24	0.85	0.95	33	44
TL4040SG11-R36M	0.36	1.05	1.15	32	30
TL4040SG11-R47M	0.47	1.53	1.68	30	30
TL4040SG11-R56M	0.56	1.61	1.80	32	22
TL4040SG11-R78M	0.78	1.80	1.90	27	22
TL4040SG11-1R0M	1.0	2.30	2.50	25	20
TL4040SG11-1R8M	1.8	4.50	5.00	17	16
TL4040SG11-2R0M	2.0	5.20	5.80	16	14
TL4040SG11-4R7M	4.7	12.9	14.2	9.5	7.6
TL4040SG11-6R8M	6.8	17.5	19.3	9.0	7.5
TL4040SG11-100M	10.0	27.8	30.5	7.5	7.1
TL4040SG11-150M	15.0	40.9	45.0	6.25	6.0
TL4040SG11-220M	22.0	60.4	66.0	5.0	4.5
TL4040SG11-330M	33.0	87.5	94.5	4.4	4.0
TL4040SG11-470M	47.0	132.0	145.0	3.3	3.0
TL4040SG11-101M	100.0	249.0	270.0	2.5	2.25

Tolerance: M = ±20%

Notes

1. Part numbering (See page 2)
2. Inductance measured at 0 (A), 0.1V and 100kHz
3. DC current (A) that will cause an approximate ΔT of 40°C
4. DC current (A) that will cause L_0 to drop approximately 20%
5. The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions.

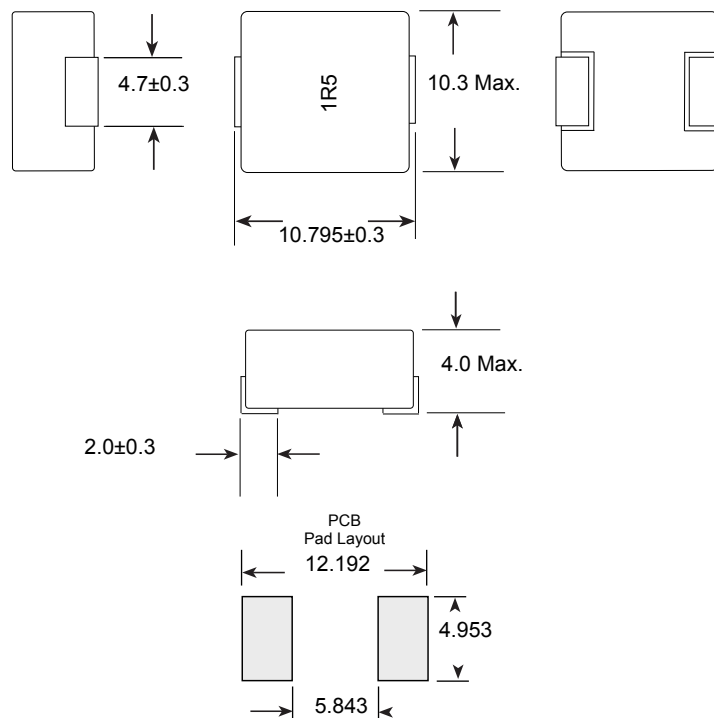


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Marking : XXX = Inductance in “ μ H”

1R5 = 1.5 μ H

Dimensions : (mm)



Part numbering:

TL4040SG11-R47MD

TL – Inductor code , 4040 – Series code, SG – SMD Green, 11 – Frequency, R47 – 0.47 μ H, M – Tolerance = $\pm 20\%$,
D – 13" reel

Packaging:

B= Less than full reel machine ready

D= 13" machine ready. EIA-481 embossed plastic tape (800 parts)

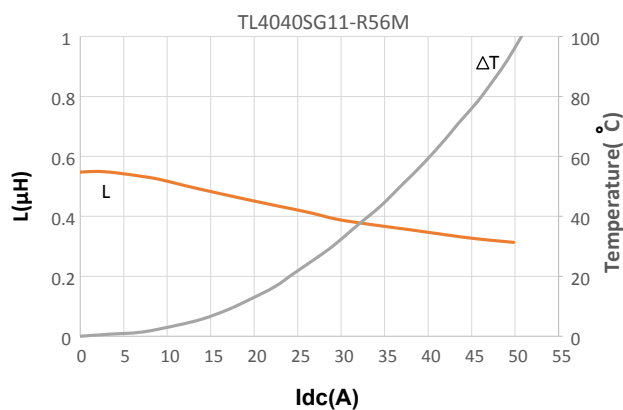
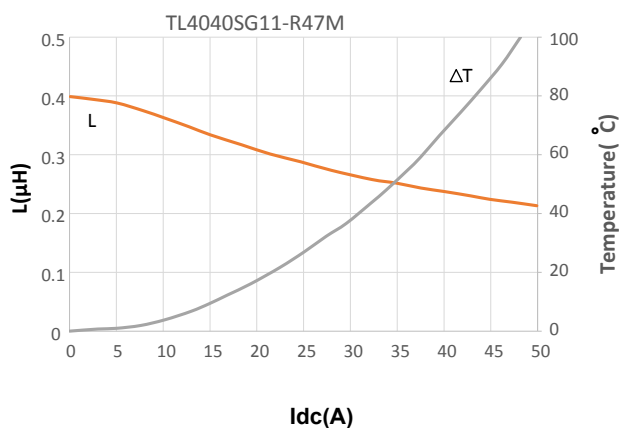
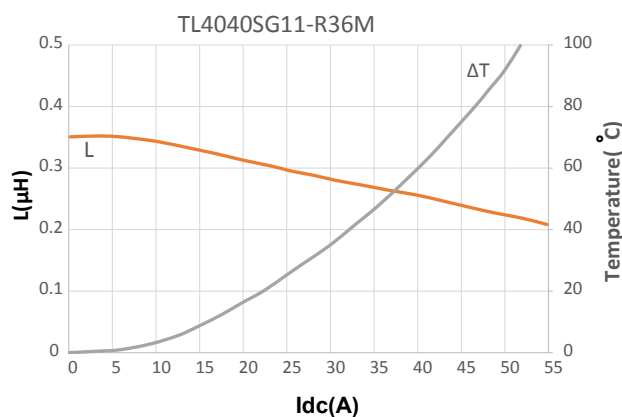
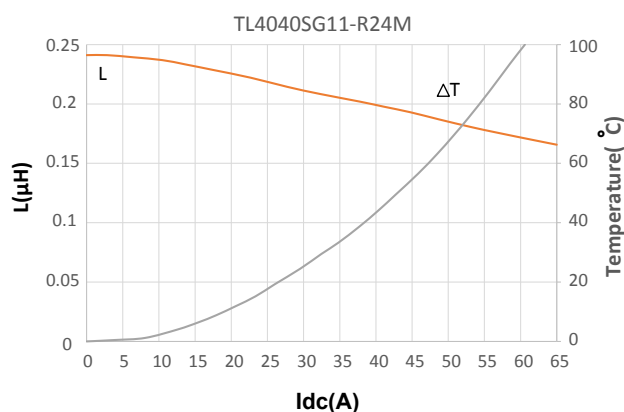
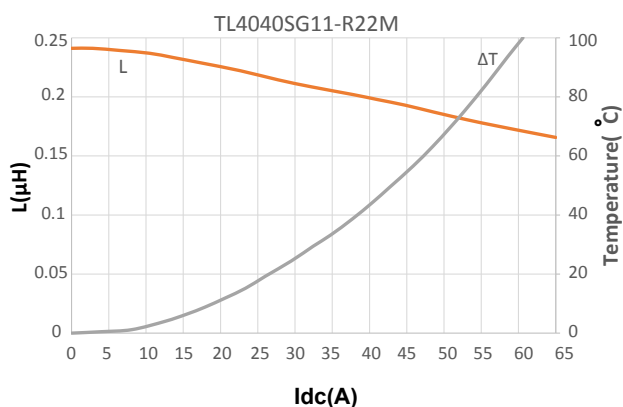
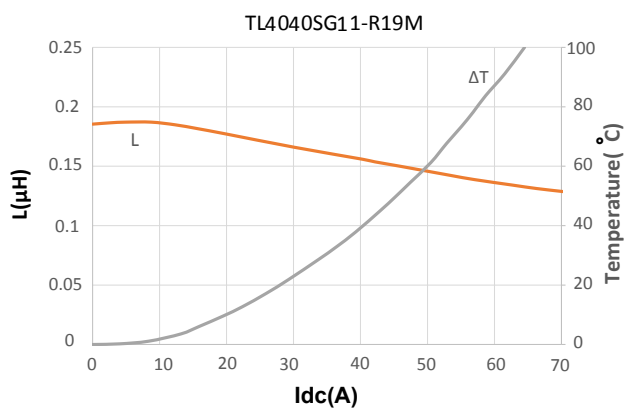
Termination:

Matte tin over Copper



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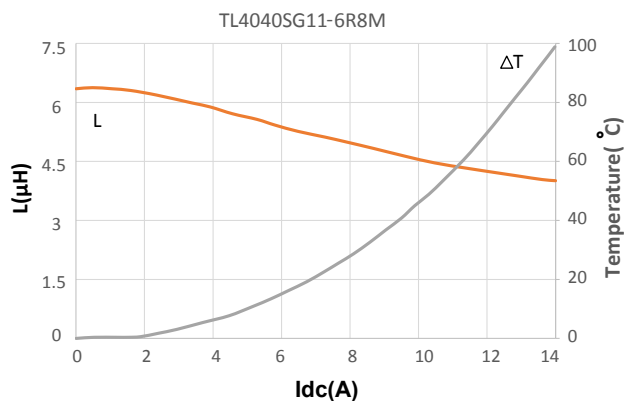
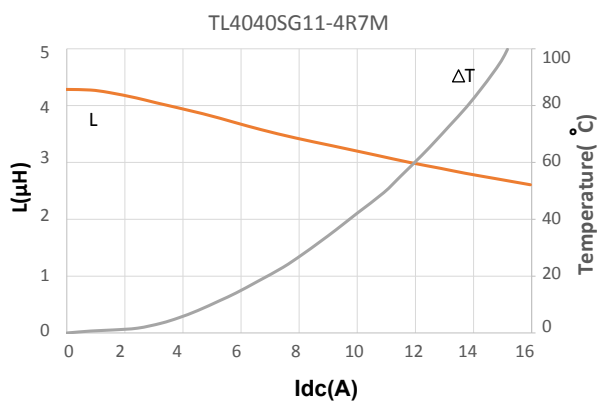
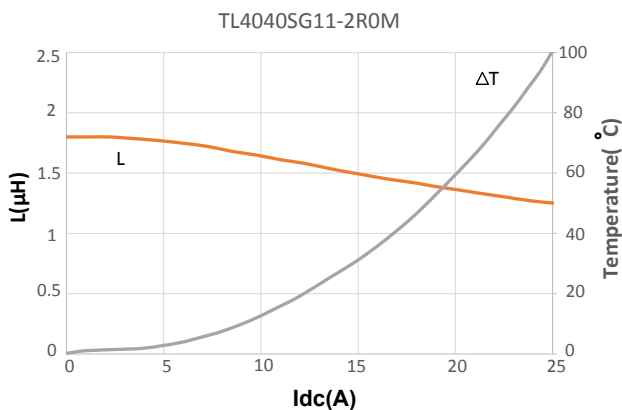
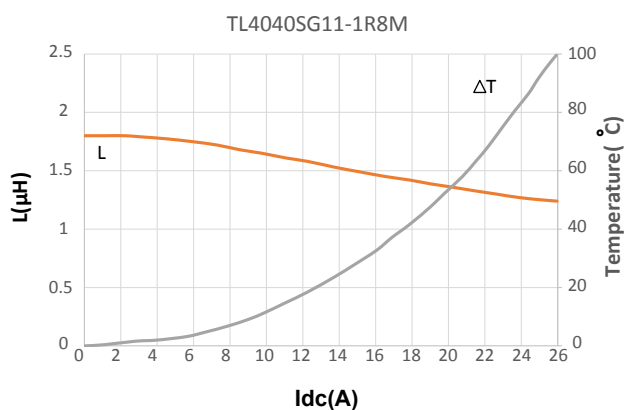
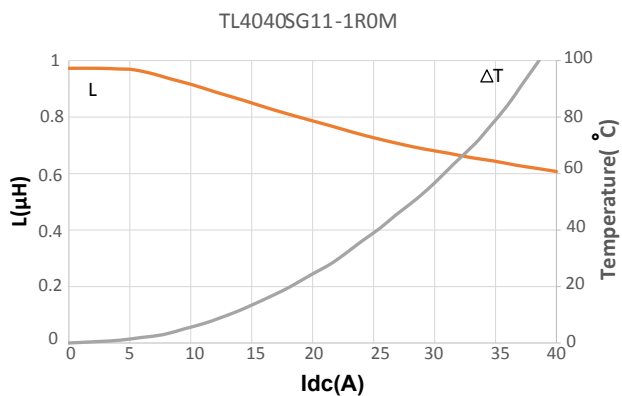
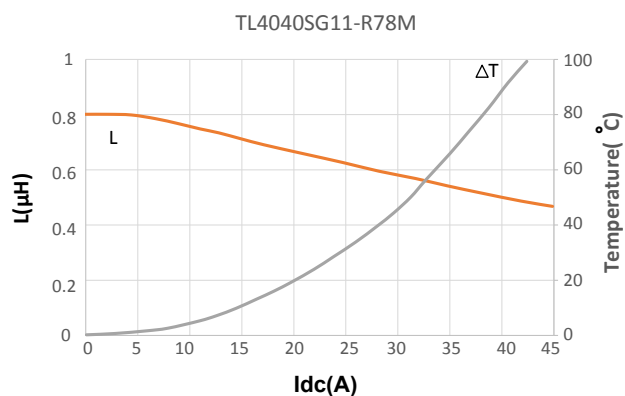
INDUCTANCE vs CURRENT & ΔT vs CURRENT





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