

Low Profile High Current Shielded Inductors TL4040SG51

FEATURES:

- ⬇ Height 4.0 mm
- ⬇ Operating temperature range - 55 °C to + 125 °C
- ⬇ Frequency range up to 2.0 MHz
- ⬇ RoHS2 Compliant, Halogen Free



Specifications(25 °C):

Part ⁽¹⁾ Number	⁽²⁾ INDUCTANCE (μH)	DCR TYP. (mΩ)	DCR MAX. (mΩ)	HEAT RATING CURRENT (A) ⁽³⁾	SATURATION CURRENT (A) ⁽⁴⁾	SRF TYP. (MHz)
TL4040SG51-R47M	0.47	1.55	1.66	30.0	28.5	72.1
TL4040SG51-1R0M	1.0	2.87	3.07	23.5	24.0	37.2
TL4040SG51-2R2M	2.2	8.15	8.76	15	12	30.1
TL4040SG51-3R3M	3.3	11.0	11.81	11.0	12.0	25.5
TL4040SG51-4R7M	4.7	14.3	15.32	9.8	9.2	20.1
TL4040SG51-5R6M	5.6	16.5	17.60	9.3	9.0	16.3
TL4040SG51-6R8M	6.8	20.9	22.36	8.0	9.0	16.3
TL4040SG51-100M	10	30.9	33.06	6.5	8.5	11.5
TL4040SG51-150M	15	47.0	50.29	5.1	7.7	10.4
TL4040SG51-220M	22	70.5	75.44	4.1	6.4	8.30
TL4040SG51-330M	33	110	117.70	3.7	4.2	5.79

Tolerance: M = ±20 %

Notes

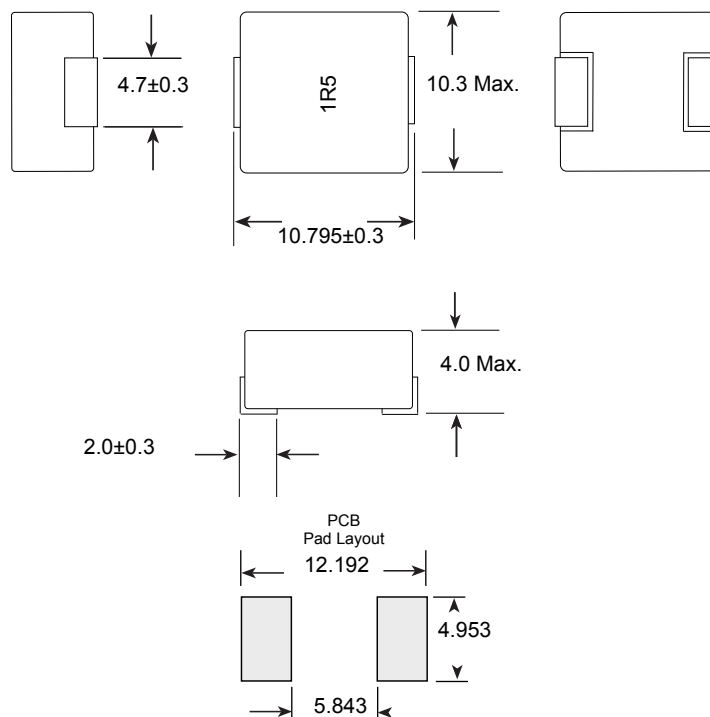
1. Part numbering (See page 2)
2. Inductance measured at 0 (A), 0.1V and 100kHz
3. DC current (A) that will cause an approximate ΔT of 40°C
4. DC current (A) that will cause initial inductance to drop approximately 20%
5. The part temperature (ambient + temp. rise) should not exceed 125°C under worst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

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Marking : xxx = Inductance in “ μ H”

1R5 = 1.5 μ H

Dimensions : (mm)



Part numbering:

TL4040SG51-R47MD

TL – Inductor code , 4040 – Series code, SG – SMD Green, 51 – Frequency, R47 – 0.47 μ H, M – Tolerance = $\pm 20\%$, D – 13" reel

Packaging:

B= Less than full reel machine ready

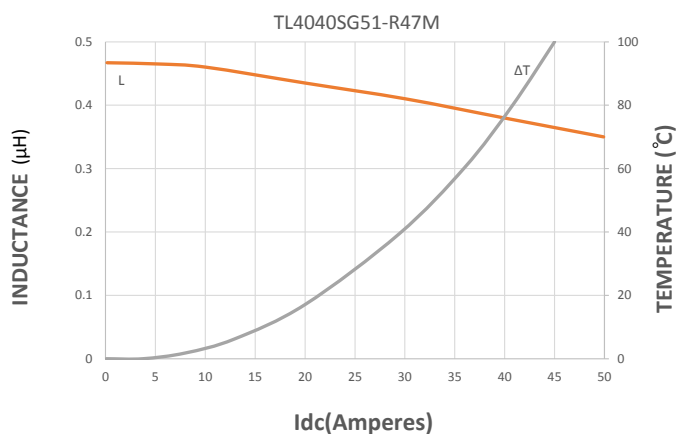
D= 13" machine ready. EIA-481 embossed plastic tape (800 parts)

Termination:

Matte tin over Copper

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INDUCTANCE VS DC CURRENT



INDUCTANCE VS Q

