

Low Profile High Current Shielded Inductor TL2020SG01

FEATURES:

- Height 3.0mm
- Operating temperature range - 55 °C to + 125 °C
- Frequency range up to 5.0 MHz
- RoHS2 compliant Halogen Free



Specifications(25 °C):

Part ⁽¹⁾ Number	INDUCTANCE ⁽²⁾ (uH)	DCR TYP. (mΩ)	DCR MAX. (mΩ)	HEAT RATING CURRENT (A) ⁽³⁾	SATURATION CURRENT (A) ⁽⁴⁾	SRF TYP. (MHz)
TL2020SG01-R10M	0.10	3.0	3.14	23	27	255
TL2020SG01-R15M	0.15	4.2	4.50	15	21	160
TL2020SG01-R33M	0.33	5.3	5.50	13.7	19	128
TL2020SG01-R47M	0.47	6.7	7.0	12.2	16	84
TL2020SG01-R68M	0.68	8.5	8.9	10.2	14	80
TL2020SG01-R82M	0.82	11	11.9	9.3	13	73
TL2020SG01-1R0M	1.0	13	13.3	9.2	12	59
TL2020SG01-1R5M	1.5	19	20	7.2	11	42
TL2020SG01-2R2M	2.2	27	29	5.8	10	39
TL2020SG01-3R3M	3.3	52	54	5.0	8.5	31
TL2020SG01-4R7M	4.7	73	77	3.5	8.2	25
TL2020SG01-5R6M	5.6	102	105	3.0	4.1	24
TL2020SG01-100M	10	150	155	2.5	4.0	16
TL2020SG01-150M	15	250	260	1.9	2.5	14

Tolerance: M = ±20

Notes

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

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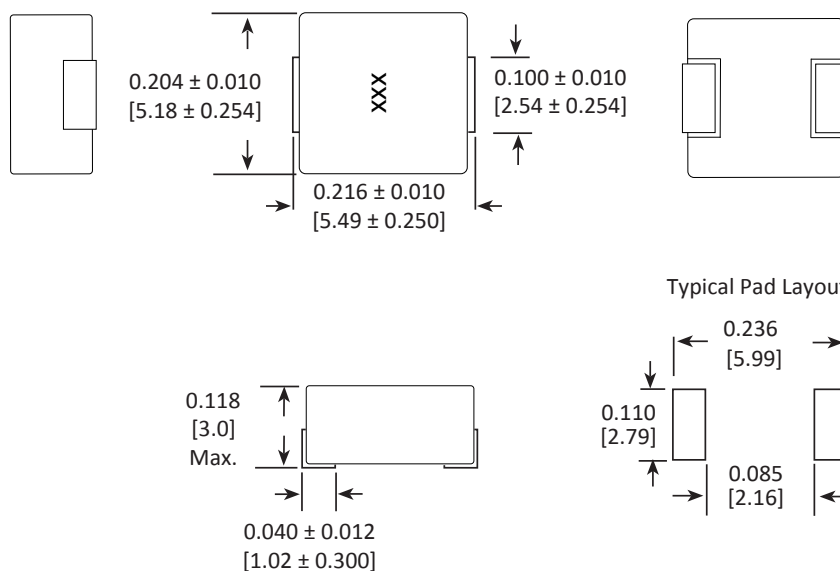
Marking : xxx = Inductance in "μH"

R10 = 0.10 μH

1R5 = 1.5 μH

151 = 150 μH

Dimensions : (inch/mm)



Part numbering:

TL2020SG01-1R5MD

TL- Inductor code, 2020- Series code, SG- SMD Green, 01- Frequency, 1R5 - 1.5μH , M - Tolerance = ±20%, D -13" reel

Packaging:

B= Less thanfull reel machine ready

D=13" machine ready. EIA-481 embossed plastic tape (2000 parts)

Termination:

Matte tin over copper

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INDUCTANCE VS DC CURRENT

