

High Current Shielded Inductor TL2525SG01

FEATURES:

- Low profile, 3.0 mm height
- Operating temperature range - 55 °C to + 125 °C
- Frequency range up to 5.0 MHz



Specifications(25 °C)

Part ⁽¹⁾ Number	INDUCTANCE ⁽²⁾ (μH)	DCR TYP. (mΩ)	DCR MAX. (mΩ)	HEAT RATING CURRENT (A) ⁽³⁾	SATURATION CURRENT(A) ⁽⁴⁾	SRF TYP (MHz)
TL2525SG01-R10M	0.10	1.5	1.7	32.5	60	400
TL2525SG01-R15M	0.15	1.9	2.5	26	52	180
TL2525SG01-R20M	0.20	2.4	3.0	24	41	150
TL2525SG01-R22M	0.22	2.5	2.8	23	40	126
TL2525SG01-R33M	0.33	3.5	3.9	20	30	100
TL2525SG01-R47M	0.47	4	4.2	17.5	26	75
TL2525SG01-R68M	0.68	5	5.5	15.5	25	62
TL2525SG01-R82M	0.82	6.7	8	13	24	60
TL2525SG01-1R0M	1.0	9	10	11	22	55
TL2525SG01-1R5M	1.5	14	15	9	18	40
TL2525SG01-2R2M	2.2	18	20	8	14	38
TL2525SG01-3R3M	3.3	28	30	6	13.5	30
TL2525SG01-4R7M	4.7	37	40	5.5	10	25
TL2525SG01-6R8M	6.8	54	60	4.5	8	21
TL2525SG01-8R2M	8.2	64	68	4	7.5	17
TL2525SG01-100M	10	102	105	3	7.0	16

Tolerance: M = ±20%

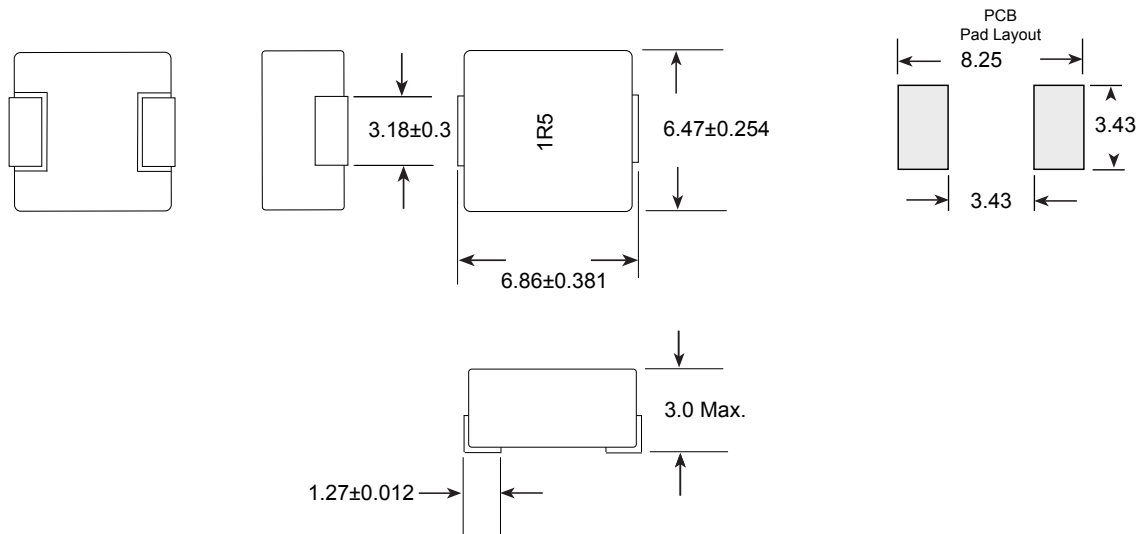
Notes

- Part numbering (See page 2)
- Inductance measurements at no load @ 100kHz, 0.1vrms.
- DC current (A) that will cause an approximate ΔT of 40°C
- DC current (A) that will cause initial inductance to drop approximately 20%

Caution: The part temperature should not exceed 125°C under worst case operating conditions.

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Dim: (mm)



Part numbering:

TL2525SG01-1R5MD

TL-Inductor code, 2525-Series code, SG-SMD Green, 01- Frequency, 1R5 - $1.5 \mu\text{H}$, M-Tolerance- $\pm 20\%$, D- 13" reel

Packaging:

B= Less than full reel machine ready

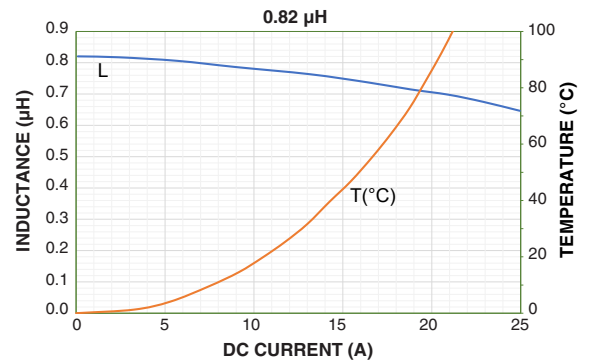
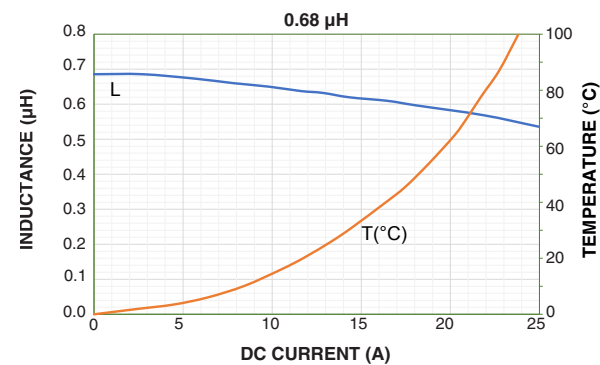
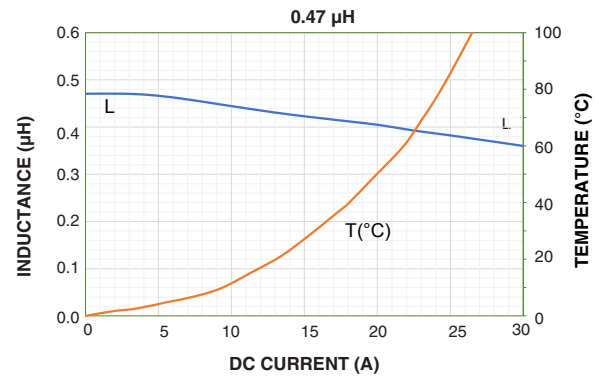
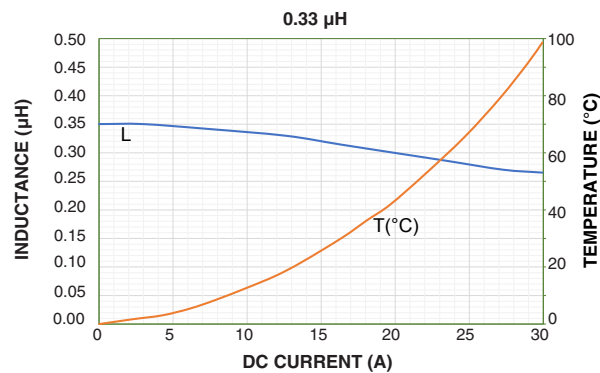
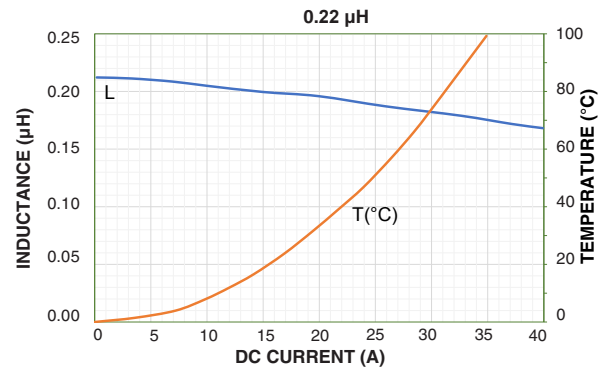
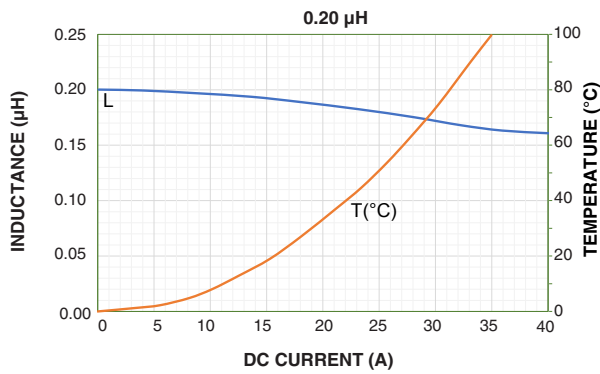
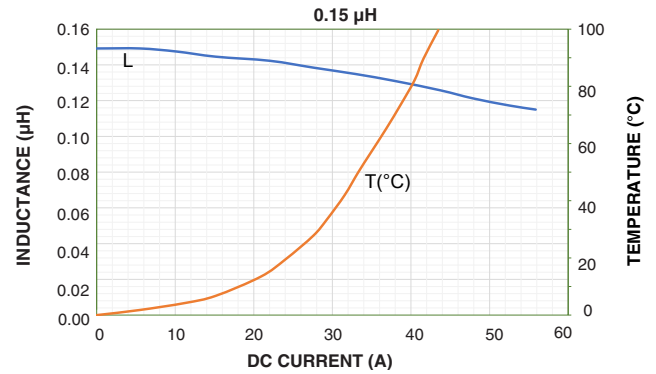
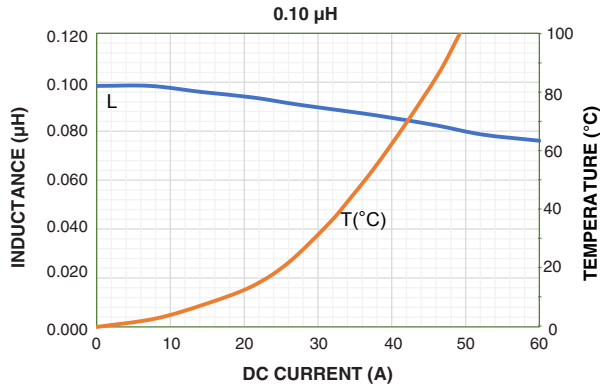
D= 13" machine ready. EIA-481 embossed plastic tape (1000 parts)

Termination:

Matte tin over copper

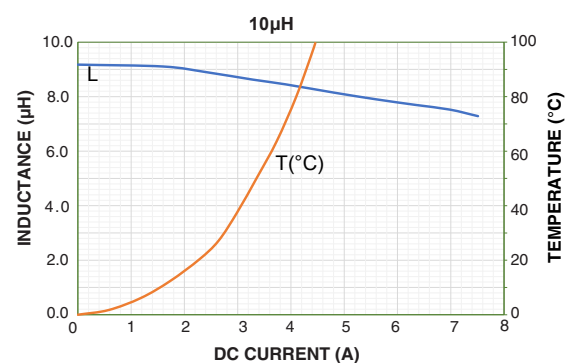
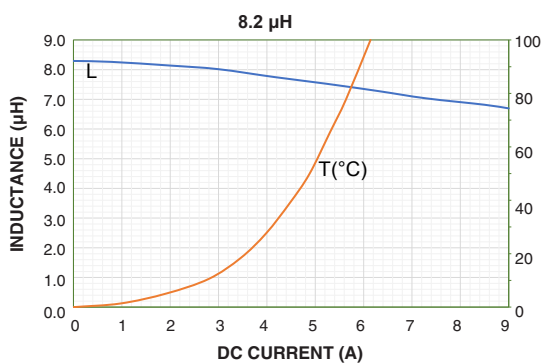
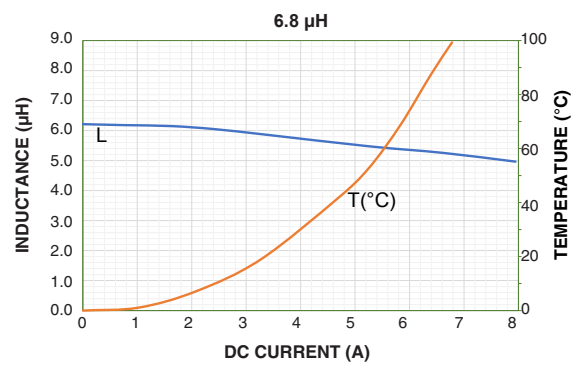
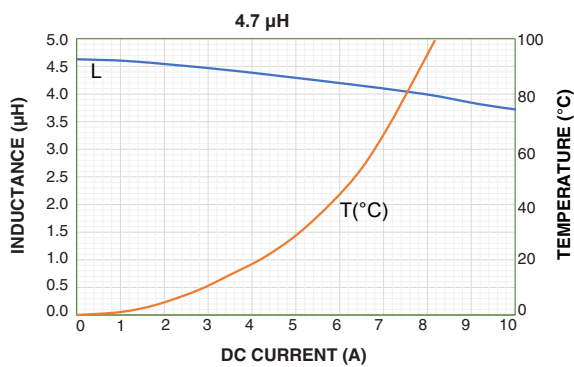
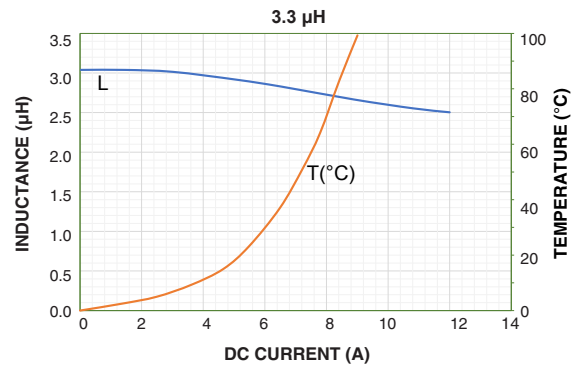
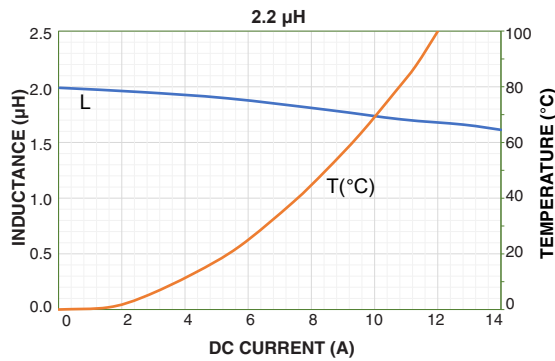
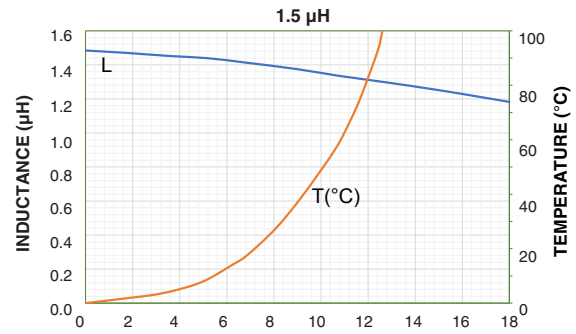
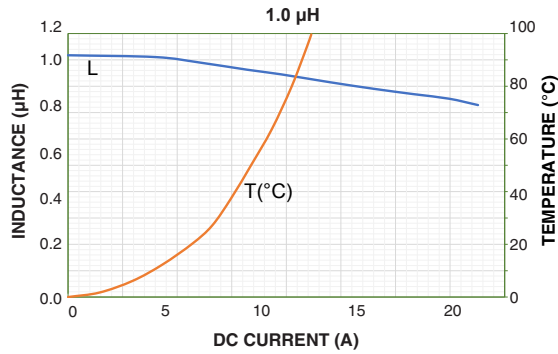
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INDUCTANCE VS DC CURRENT



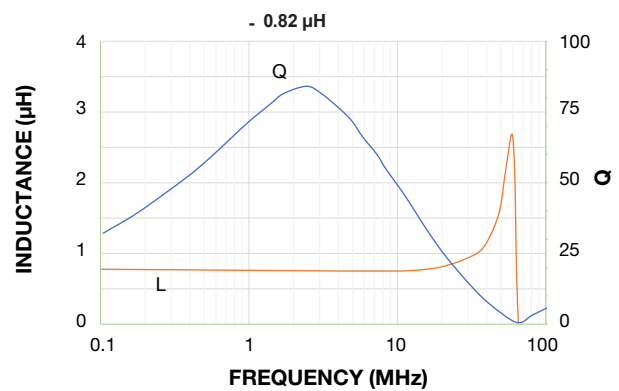
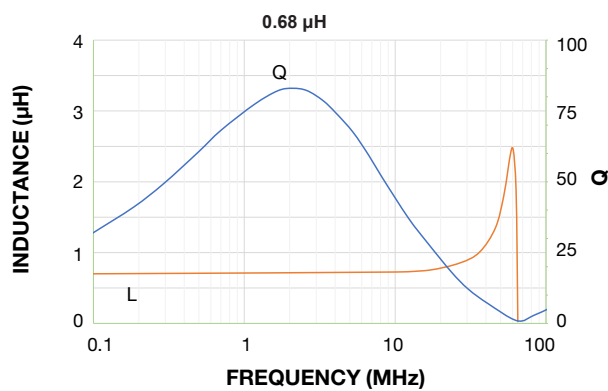
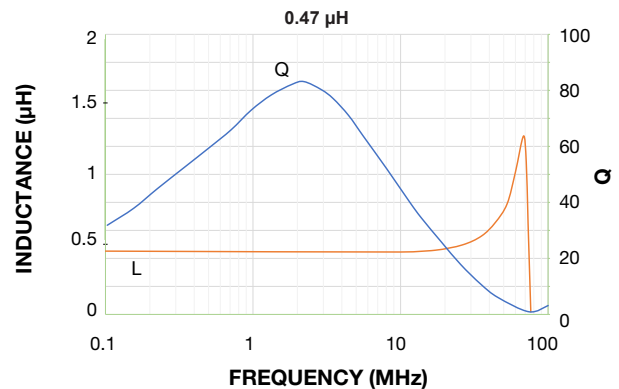
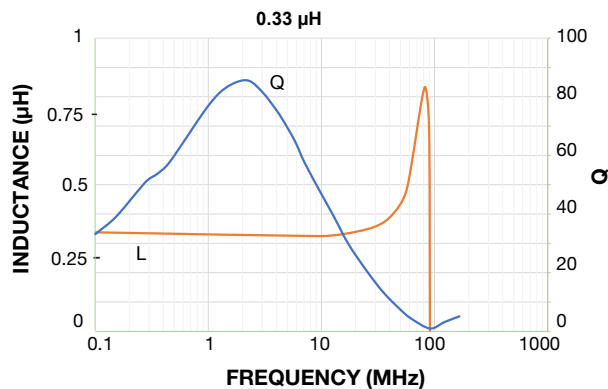
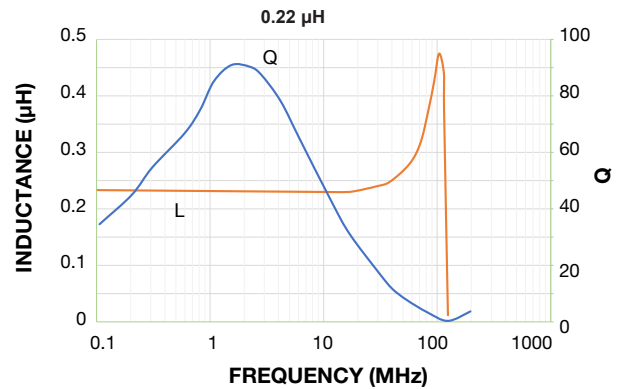
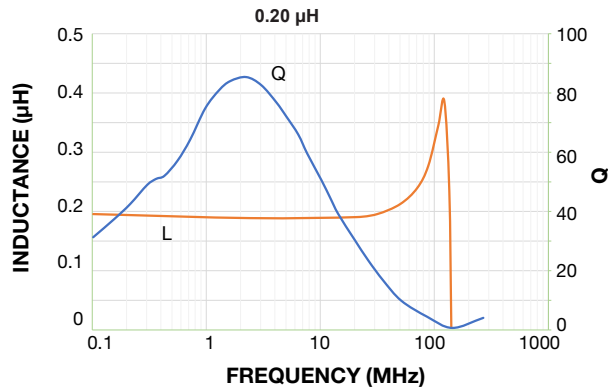
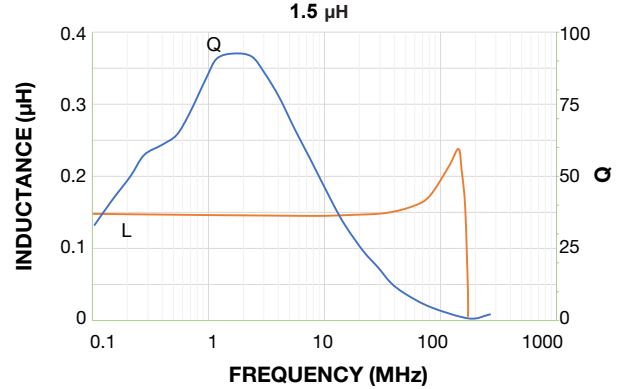
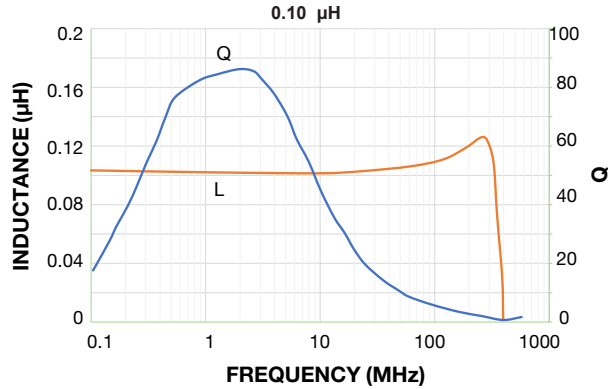
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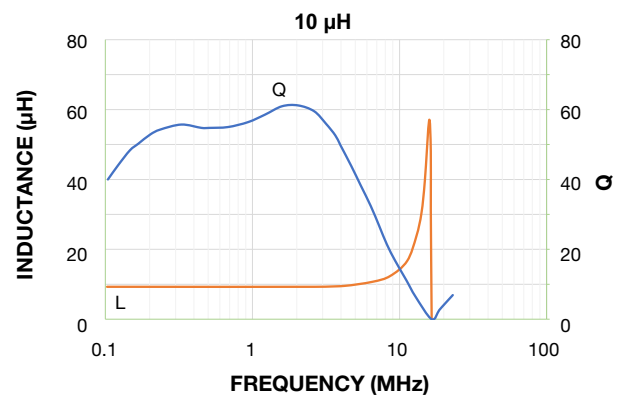
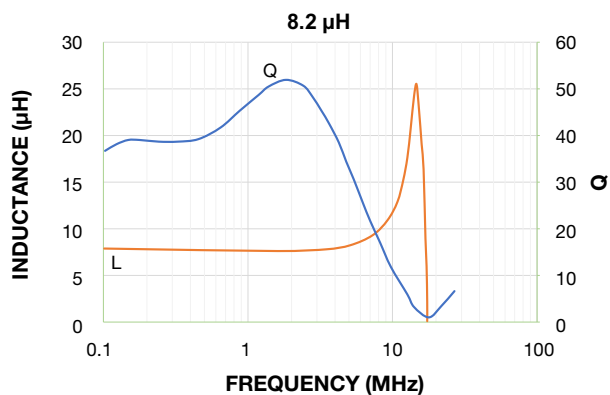
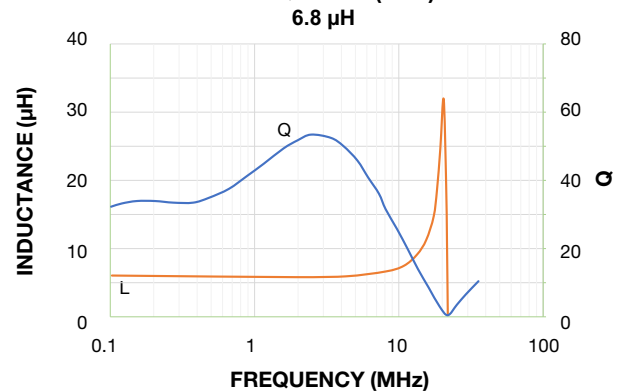
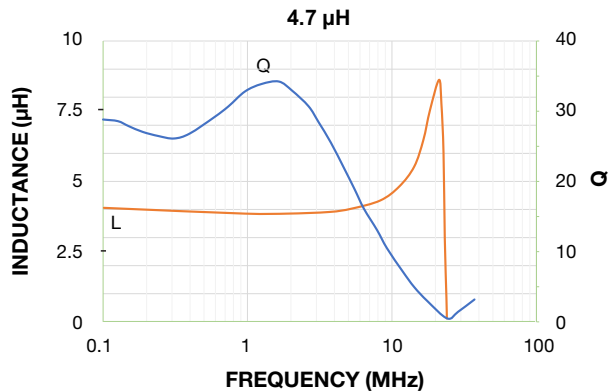
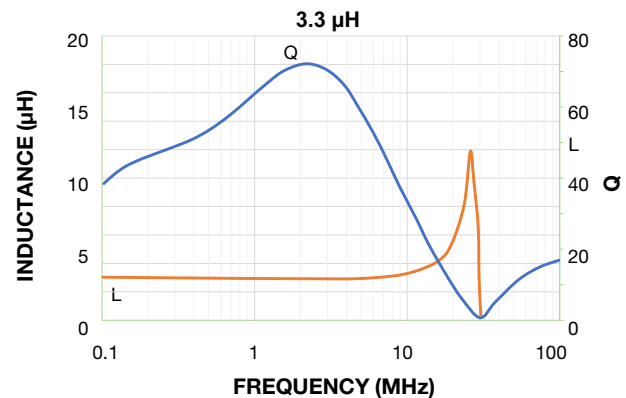
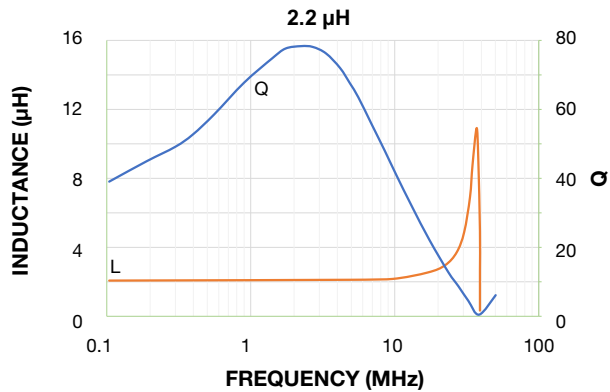
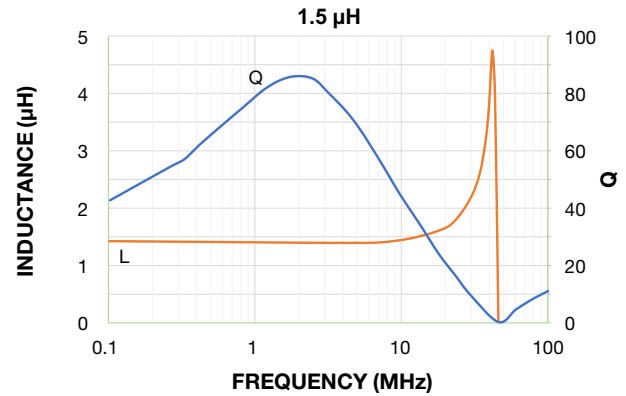
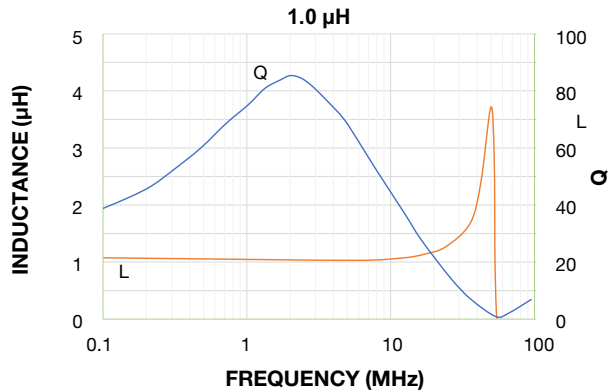
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INDUCTANCE & Q VS FREQUENCY



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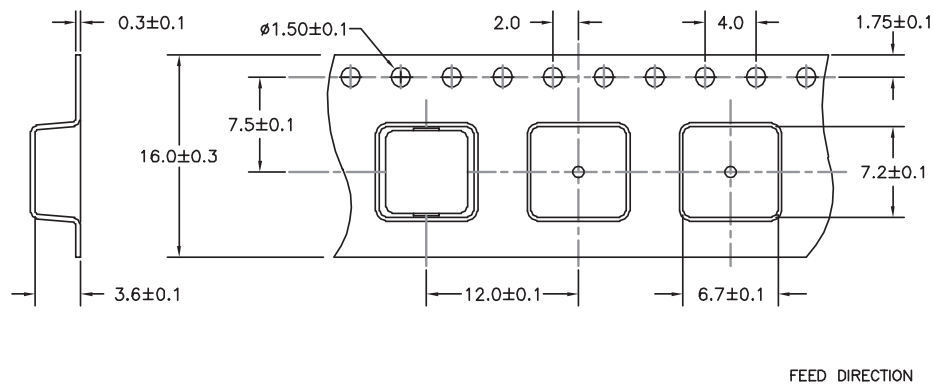
INDUCTANCE & Q VS FREQUENCY



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PACKAGING:

CARRIER TAPE DIMENSIONS (mm)



REEL DIMENSIONS (mm)

