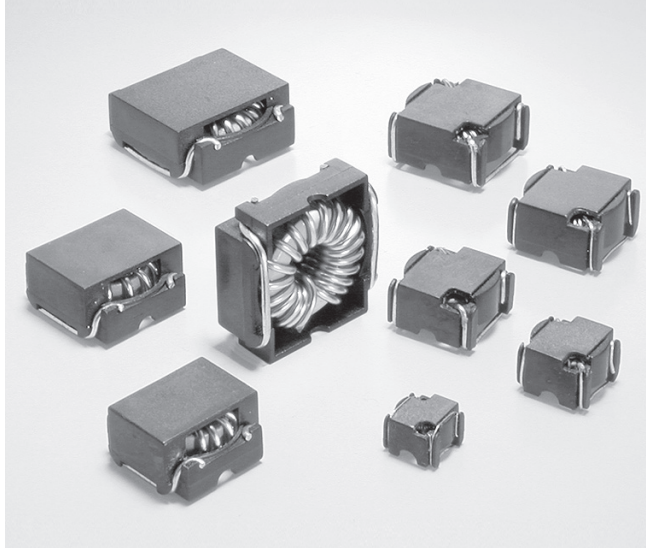




Toroid Power Inductors – SPT Series



- Toroid winding eliminates stray electromagnetic emissions
- Two versions: Standard, current ratings up to 8 Amps; High current, with ratings up to 12.2 Amp

Core material Powered iron

Core and winding loss See www.coilcraft.com/coreloss

Terminations RoHS compliant tin-silver over copper. Other terminations available at additional cost.

Ambient temperature –40°C to +85°C

Maximum part temperature: The part temperature should not exceed +85°C (ambient + self-heating). Prolonged operation above +85°C may result in a permanent increase in core loss and part failure due to thermal aging of the core material.

Storage temperature Component: –40°C to +85°C.
Packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

PCB washing Only pure water or alcohol recommended

Part number ¹	L ² ±20% (µH)	DCR max (mOhm)	SRF typ ³ (MHz)	Isat (A) ⁴			Body size
				10% drop	20% drop	30% drop	
Standard series							
SPT20L-112ML_	1.1	16.0	130	3.2	4.8	6.7	1
SPT38L-382ML_	3.8	9.3	61	4.0	6.1	8.2	3
SPT30L-522ML_	5.2	24.2	47	2.8	4.2	5.8	2
SPT20L-702ML_	7.0	95.0	37	1.2	1.8	2.5	1
SPT38L-752ML_	7.5	22.8	50	2.7	4.2	5.8	3
SPT44L-792ML_	7.9	16.2	26	3.5	5.4	7.3	4
SPT30L-123ML_	12	54.7	23.9	1.9	2.8	3.7	2
SPT44L-143ML_	14	23.6	15.6	2.8	4.1	5.7	4
SPT50L-163ML_	16	19.7	14.3	2.8	4.2	5.8	5
SPT38L-223ML_	22	63	18.1	1.5	2.3	3.1	3
SPT20L-233ML_	23	320	13.5	0.6	1.0	1.3	1
SPT50L-263ML_	26	32	11.2	2.3	3.4	4.6	5
SPT30L-353ML_	35	166	11.0	1.1	1.6	2.2	2
SPT44L-413ML_	41	85	8.30	1.6	2.3	3.1	4
SPT38L-733ML_	73	290	10.8	0.81	1.3	1.7	3
SPT50L-733ML_	73	133	4.56	1.4	2.0	2.7	5
SPT30L-174ML_	170	640	3.84	0.44	0.68	0.95	2
SPT38L-294ML_	290	657	2.87	0.41	0.64	0.90	3
SPT50L-564ML_	560	550	1.54	0.37	0.59	0.81	5
SPT38L-674ML_	670	1200	1.38	0.26	0.40	0.55	3
SPT44L-115ML_	1100	1908	1.35	0.25	0.41	0.57	4
SPT50L-205ML_	2000	1932	1.35	0.18	0.29	0.41	5
High current series							
SPT44H-282ML_	2.8	4.6	74	5.8	8.8	12.2	6
SPT44H-422ML_	4.2	6.6	61	5.0	7.8	10.9	6
SPT50H-652ML_	6.5	7.2	27.3	4.6	6.7	9.1	7
SPT50H-842ML_	8.4	8.5	22.8	4.3	6.4	8.5	7
SPT68H-113ML_	11	8.2	25.9	4.8	7.2	9.9	8
SPT68H-183ML_	18	12.5	12.0	3.9	5.7	7.7	8

1. When ordering, specify **termination** and **packaging** codes:

SPT20L-112MLD

Termination: L = RoHS compliant tin-silver over copper.

Special order:

T = RoHS tin-silver-copper (95.5/4/0.5) or
S = non-RoHS tin-lead (63/37).

Packaging: D = 13" machine-ready reel

EIA-481 embossed plastic tape.

Body size 1: 750 per full reel.

Body sizes 2–3: 350 per full reel.

Body size 4: 300 per full reel.

Body sizes 5–6: 250 per full reel.

Body sizes 7–8: 200 per full reel.

B = Less than full reel

In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance tested at 100 kHz, 0.1 Vrms on Agilent/HP 4192A.
3. SRF measured on Agilent/HP 8753ES network analyzer.
4. DC current that causes the specified inductance drop from its value without current.
5. Electrical specifications at 25°C.
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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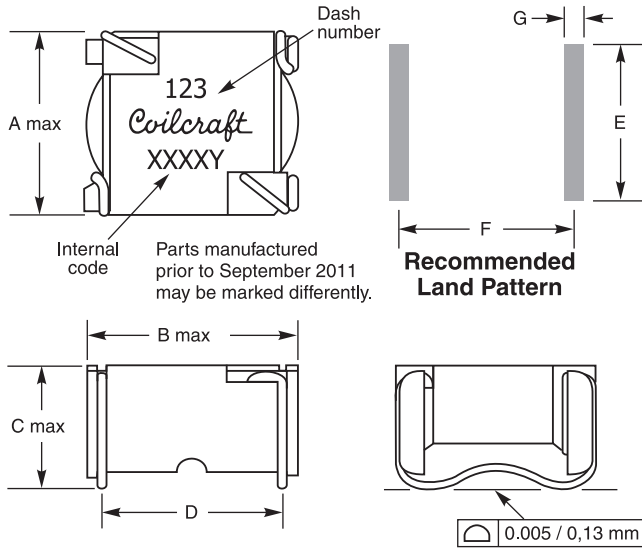
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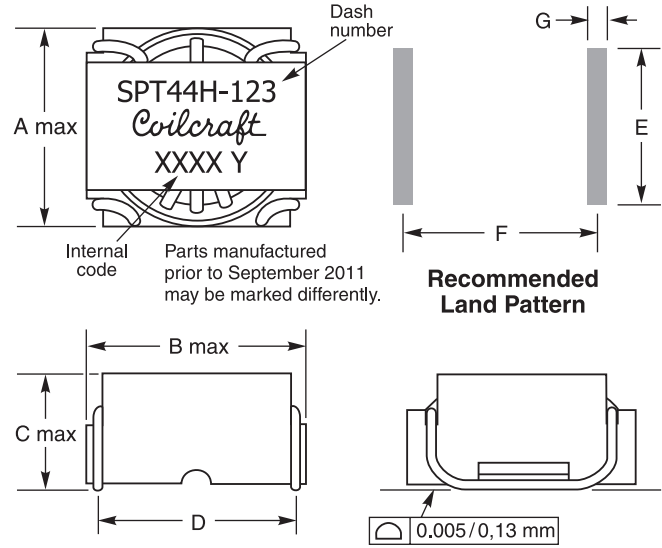


Toroid Power Inductors – SPT Series

Body size 1 - 5



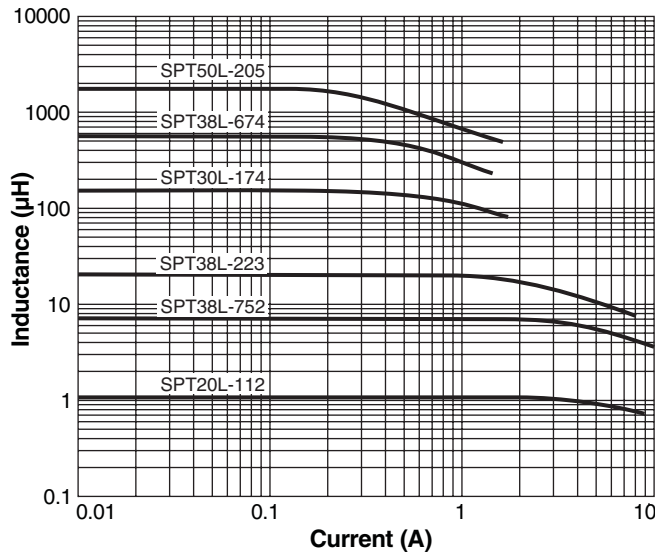
Body size 6 - 8



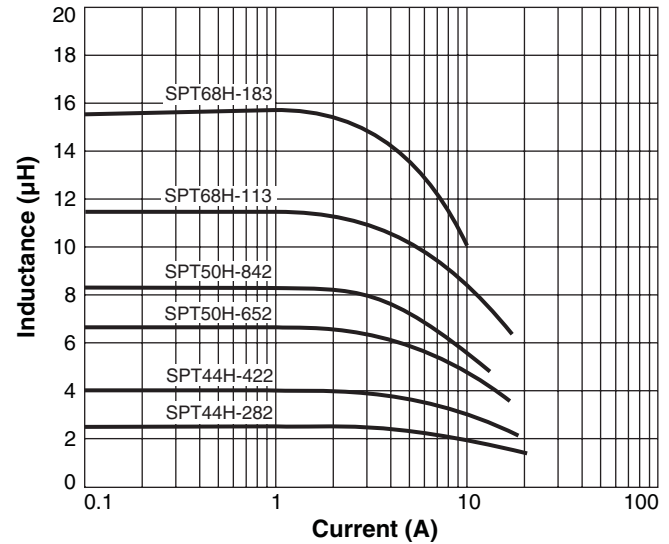
Size	A max	B max	C max	D ¹	E ²	F ²	G	Weight (g)
1	0.34/8,64	0.34/8,64	0.28/7,00	0.26/6,60	0.30/7,62	0.27/6,86	0.06/1,52	0.47-0.54
2	0.44/11,05	0.44/11,18	0.37/9,50	0.35/8,89	0.40/10,16	0.36/9,14	0.06/1,52	1.42-1.59
3	0.56/14,22	0.56/14,35	0.37/9,50	0.45/11,43	0.52/13,21	0.46/11,68	0.06/1,52	2.73-3.34
4	0.59/14,99	0.61/15,62	0.41/10,50	0.50/12,70	0.55/13,97	0.51/12,95	0.06/1,52	3.57-4.08
5	0.67/17,02	0.70/17,78	0.41/10,50	0.58/14,73	0.62/15,75	0.59/14,99	0.06/1,52	5.19-5.97
6	0.66/16,89	0.66/16,89	0.41/10,50	0.56/14,22	0.49/12,45	0.57/14,48	0.08/2,03	4.23-4.48
7	0.74/18,80	0.74/18,80	0.41/10,50	0.63/16,00	0.56/14,22	0.64/16,26	0.08/2,03	6.18-6.53
8	0.94/23,88	0.94/23,88	0.41/10,50	0.82/20,83	0.70/17,78	0.83/21,08	0.08/2,03	11.12-11.63

Dimensions are in inches/mm. Unless specified, tolerance is ± 0.009/0,25.
 1. ±0.015/0,38
 2. ±0.005/0,13

Typical L vs Current (Standard series)



Typical L vs Current (High current series)



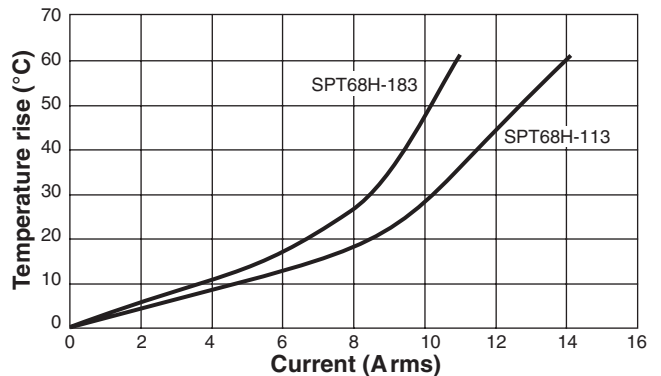
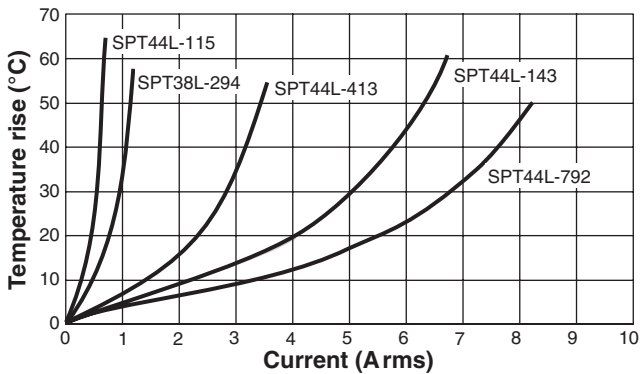
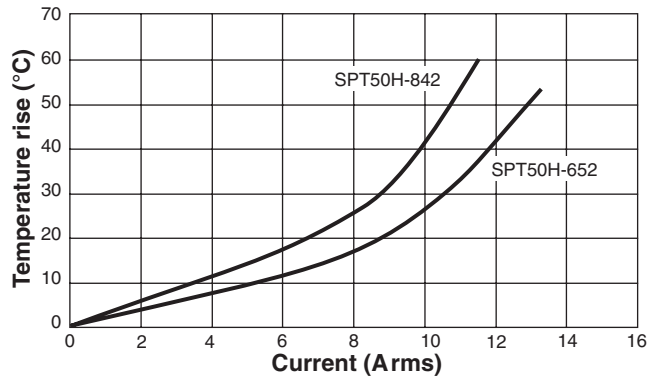
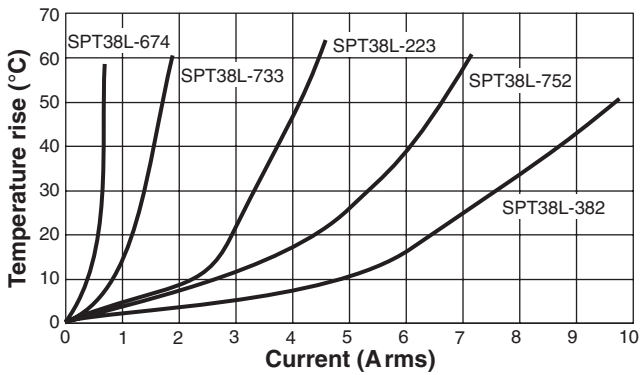
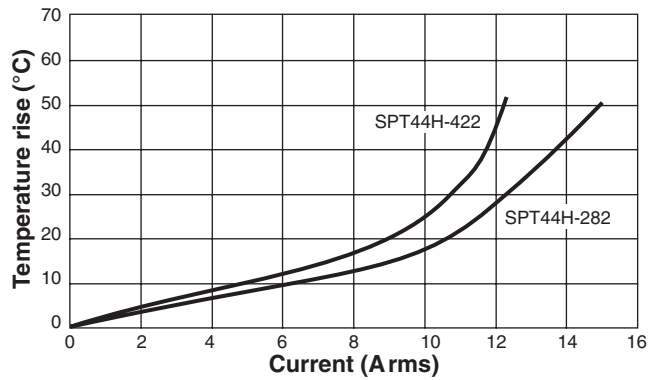
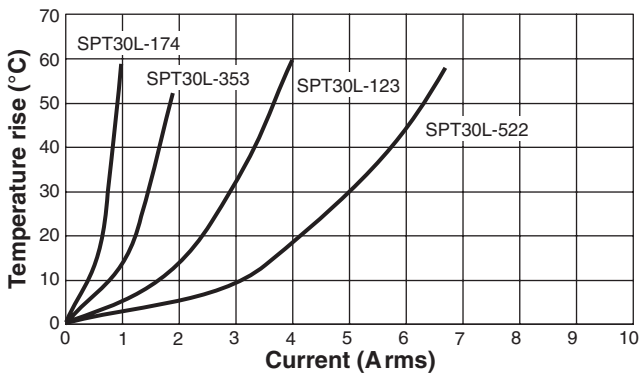
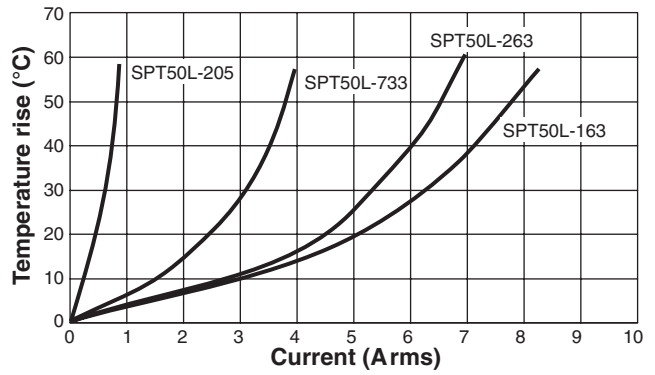
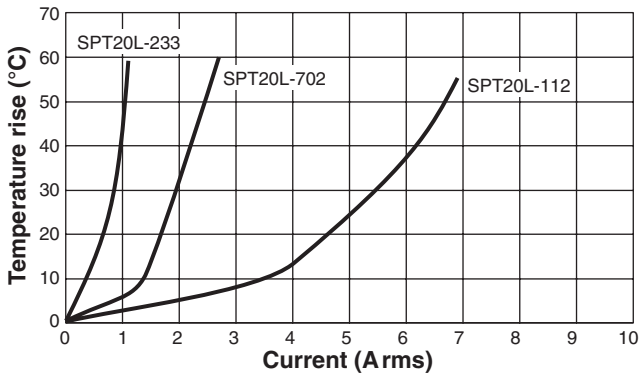
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Toroid Power Inductors – SPT Series

Typical Temperature Rise vs Current*



* Measured at 25°C ambient.

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<http://moschip.ru/get-element>

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