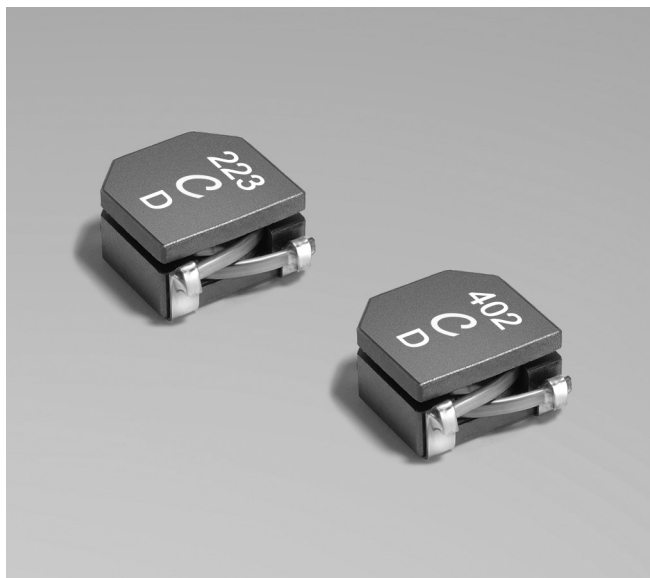


NEW!

Shielded Power Inductors SRT8045



- Magnetically shielded
- AEC-200 Grade 1 qualified (–40°C to +125°C ambient)
- Very low DCR
- Excellent current handling

Core material Ferrite**Weight** 1.0 – 1.15 g**Environmental** RoHS compliant, halogen free**Terminations** RoHS compliant matte tin over nickel over phos bronze**Ambient temperature** –40°C to +125°C**Maximum part temperature** +165°C (ambient + temp rise).**Storage temperature** Component: –40°C to +165°C.

Tape and reel 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

Packaging 300/7" reel; 1200/13" reel Plastic tape: 16 mm wide, 0.4 mm thick, 12 mm pocket spacing, 4.57 mm pocket depth**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² (μ H) \pm 20%	DCR (mOhms) ³		SRF typ ⁴ MHz	Isat (A) ⁵			Irms (A) ⁶	
		typ	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SRT8045-142ME_	1.4	7.70	9.50	69.0	15.8	16.8	17.4	8.0	12.0
SRT8045-402ME_	4.0	11.6	14.5	34.5	8.70	9.80	10.4	6.8	9.9
SRT8045-103ME_	10	32.5	37.0	22.0	5.70	6.40	7.00	4.2	6.0
SRT8045-153ME_	15	45.7	48.8	16.4	4.20	5.00	5.50	4.0	5.8
SRT8045-223ME_	22	64.0	68.0	13.1	3.40	3.90	4.50	2.8	3.8

1. When ordering, please specify **packaging** codes:**SRT8045-223MED****Packaging:** **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (300 parts 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 C instead.**D** = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1200 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.

3. DCR measured on a micro-ohmmeter.

4. SRF measured using Agilent/HP 4395A or equivalent.

5. DC current at 25°C that causes the specified inductance drop from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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US +1-847-639-6400 sales@coilcraft.com**UK** +44-1236-730595 sales@coilcraft-europe.com**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw**China** +86-21-6218 8074 sales@coilcraft.com.cn**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 1281-1 Revised 04/12/17

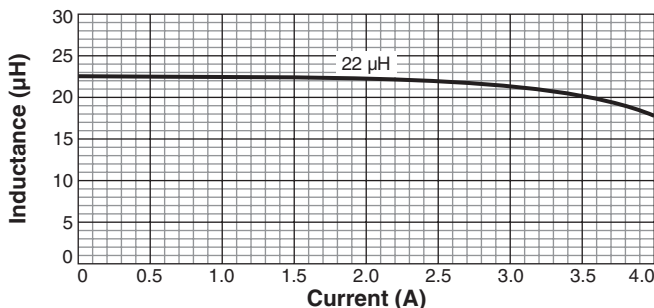
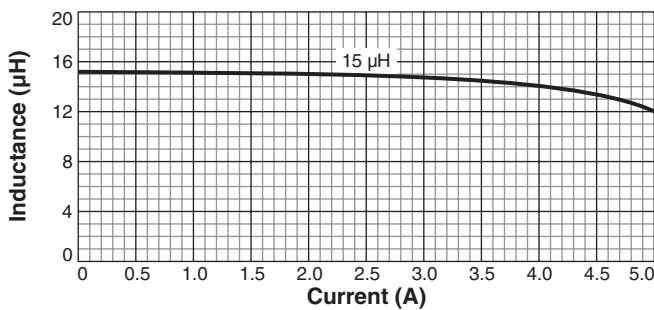
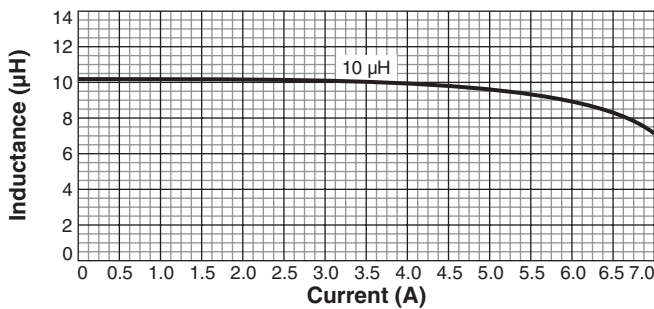
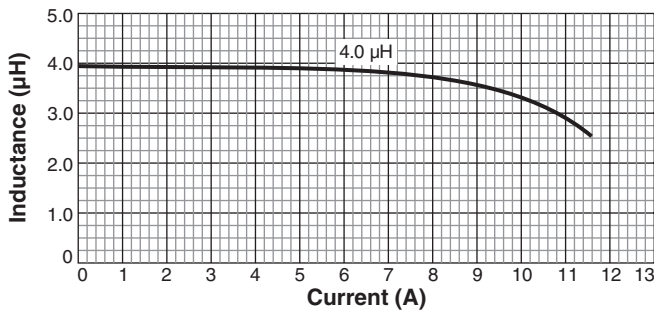
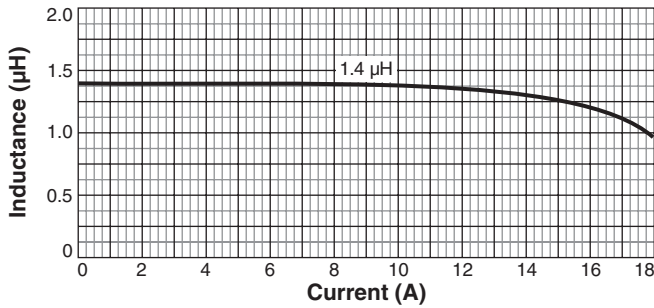
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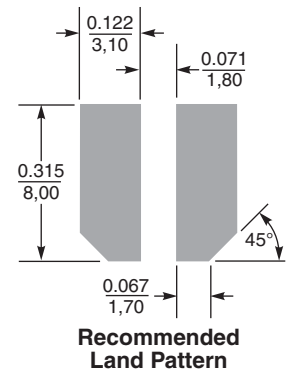
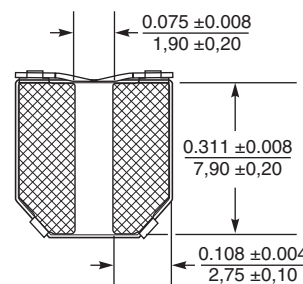
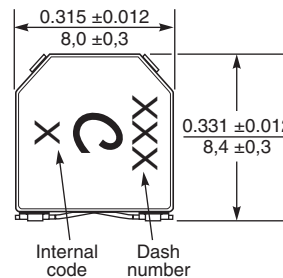
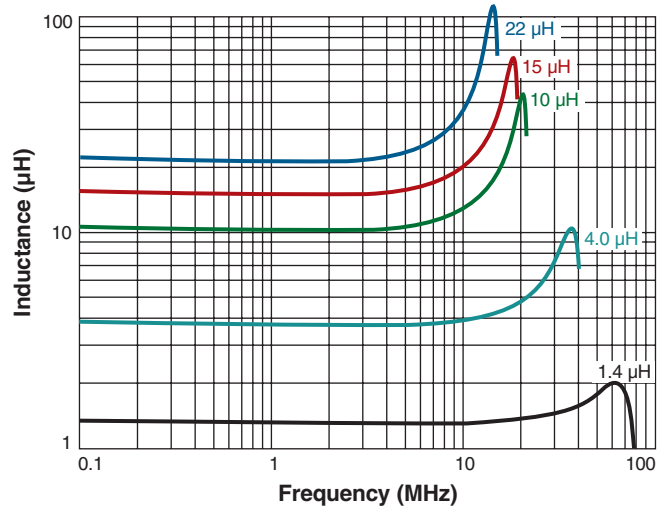
NEW!

Power Inductors – SRT8045 Series

L versus Current



L versus Frequency



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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China +86-21-6218 8074 sales@coilcraft.com.cn
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