

High Temp Power Inductors MSS1260H



- Magnetic shielding, very low DCR, excellent current handling
- AEC-Q200 Grade 1 (–40°C to +125°C)

Core material Ferrite

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

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over phos bronze. Other terminations available at additional cost.

Weight: 2.8–3.3 g

Operating voltage 400 V max

Ambient temperature –40°C to +125°C with (40°C rise) Irms current.

Maximum part temperature +165°C (ambient + temp rise). [Derating](#).

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)

Packaging 500/13" reel; Plastic tape: 24 mm wide, 0.5 mm thick, 16 mm pocket spacing, 6.9 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 (µH)	DCR max ³ (mOhms)	SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
MSS1260H-102MED	1.0 ±20%	5.2	115	18.2	20.8	22.5	7.3	10.7
MSS1260H-152MED	1.5 ±20%	5.8	82	14.3	16.5	18.0	6.8	9.7
MSS1260H-222MED	2.2 ±20%	7.5	62	11.8	13.5	14.6	6.0	8.5
MSS1260H-332MED	3.3 ±20%	8.8	49	10.0	11.3	12.3	5.5	7.9
MSS1260H-422MED	4.2 ±20%	11.0	43	8.5	9.8	10.8	5.0	7.1
MSS1260H-562MED	5.6 ±20%	12.6	38	7.5	8.7	9.5	4.7	6.7
MSS1260H-682MED	6.8 ±20%	13.4	33	6.9	7.9	8.6	4.4	6.3
MSS1260H-822MED	8.2 ±20%	17.0	27.5	6.0	7.0	7.8	4.0	5.7
MSS1260H-103MED	10 ±20%	19.3	26.0	5.5	6.4	7.0	3.9	5.5
MSS1260H-123MED	12 ±20%	21.3	23.0	5.1	5.8	6.4	3.7	5.0
MSS1260H-153MED	15 ±20%	27.9	19.0	4.6	5.3	5.7	3.2	4.3
MSS1260H-183MED	18 ±20%	30.2	18.5	4.2	4.8	5.3	3.0	4.0
MSS1260H-223MED	22 ±20%	41.5	15.0	3.8	4.3	4.7	2.5	3.3
MSS1260H-273MED	27 ±20%	45.7	14.0	3.4	3.9	4.2	2.3	3.2
MSS1260H-333MED	33 ±20%	58.0	12.5	3.1	3.5	3.9	2.3	3.2
MSS1260H-393MED	39 ±20%	60.1	11.0	2.8	3.2	3.6	2.2	3.0
MSS1260H-473KED	47 ±10%	70.5	10.0	2.6	2.9	3.2	1.8	2.6
MSS1260H-563KED	56 ±10%	77.5	9.5	2.4	2.7	3.0	1.8	2.6
MSS1260H-683KED	68 ±10%	102.9	8.3	2.1	2.4	2.7	1.6	2.3
MSS1260H-823KED	82 ±10%	116.6	7.6	1.9	2.2	2.5	1.5	2.0
MSS1260H-104KED	100 ±10%	150	6.6	1.8	2.0	2.2	1.3	1.8
MSS1260H-124KED	120 ±10%	169	5.7	1.6	1.8	2.0	1.3	1.8
MSS1260H-154KED	150 ±10%	195	5.5	1.4	1.6	1.8	1.2	1.6
MSS1260H-184KED	180 ±10%	256	4.8	1.3	1.5	1.7	0.97	1.4
MSS1260H-224KED	220 ±10%	289	4.6	1.2	1.4	1.5	0.92	1.3
MSS1260H-274KED	270 ±10%	372	4.0	1.1	1.2	1.4	0.79	1.1
MSS1260H-334KED	330 ±10%	427	3.6	0.96	1.1	1.2	0.72	1.0
MSS1260H-394KED	390 ±10%	485	3.4	0.89	1.0	1.1	0.70	0.98
MSS1260H-474KED	470 ±10%	650	3.0	0.81	0.92	1.0	0.60	0.85
MSS1260H-564KED	560 ±10%	710	2.8	0.74	0.85	0.93	0.58	0.80
MSS1260H-684KED	680 ±10%	815	2.4	0.67	0.77	0.84	0.54	0.77
MSS1260H-824KED	820 ±10%	1075	2.3	0.61	0.70	0.76	0.47	0.66
MSS1260H-105KED	1000 ±10%	1224	2.0	0.55	0.63	0.69	0.43	0.61
MSS1260H-475KED	4700 ±10%	5380	1.0	0.26	0.29	0.32	0.21	0.29

1. Please specify **termination code**:

MSS1260H-475KED

Termination: E = RoHS compliant matte tin over nickel over phos bronze.
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 (500 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.

3. DCR measured on a micro-ohmmeter and a Coilcraft CCF858 test fixture.

4. SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.

5. DC current at 25°C that causes the specified inductance drop from its value without current. [Click for temperature derating information.](#)

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. [Click for temperature derating information.](#)

7. Electrical specifications at 25°C.

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



www.coilcraft.com

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

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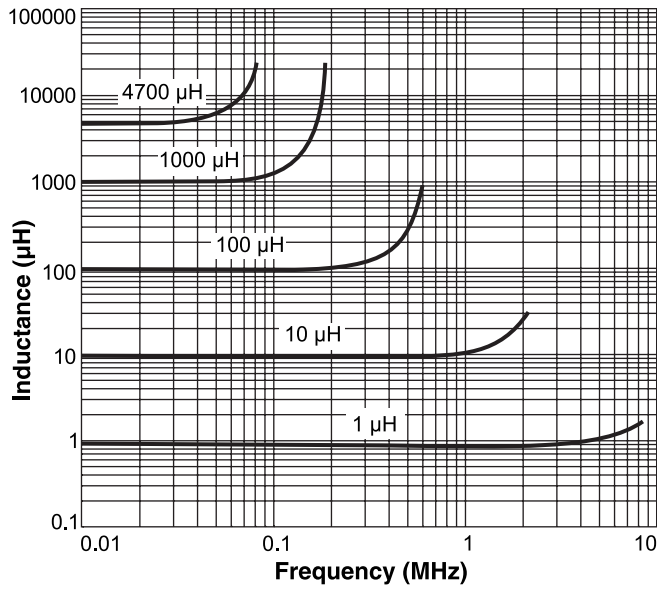
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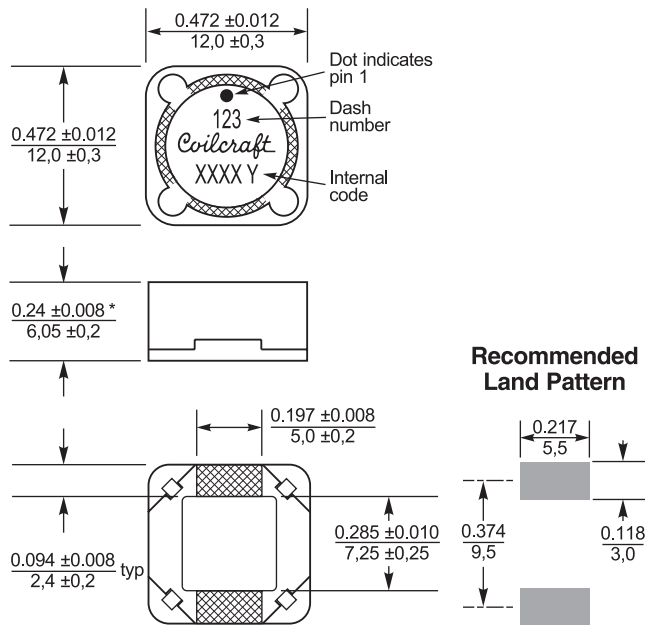
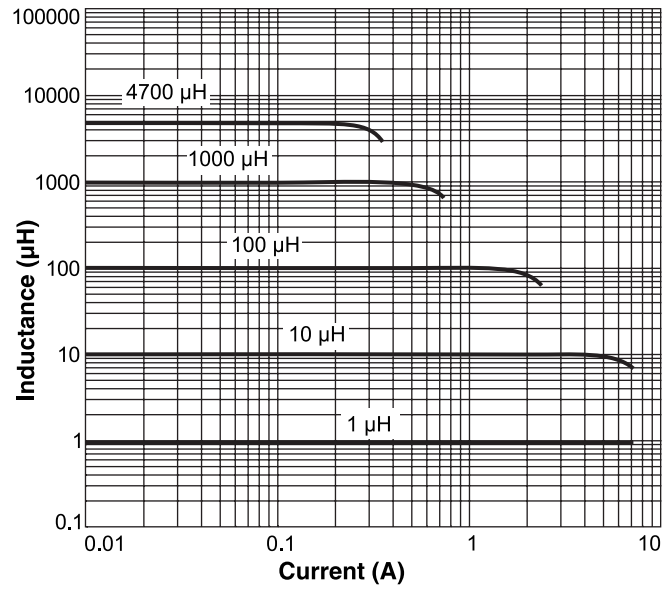


SMT Power Inductors – MSS1260H Series

Typical L vs Frequency



Typical L vs Current



* For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Dimensions before mounting can be an additional 0.012 inch (0,3 mm).

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



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

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