RoHS/ REACH COMPLIANT

Halogen Free

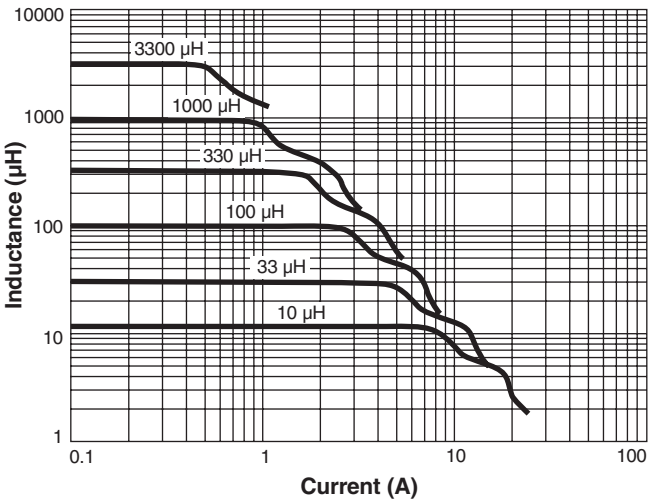
AEC Q200 +85°C

Shielded Power Inductors–MSS1210

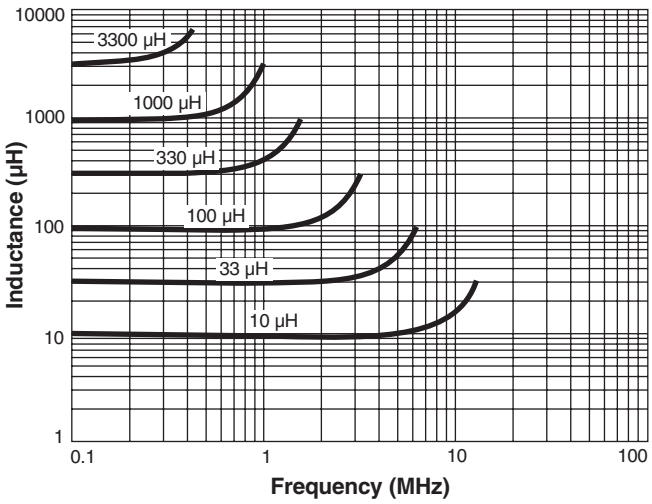
- 12.3 × 12.3 mm footprint; 10 mm high shielded inductors
- 27 inductance values from 10 µH to 10 mH
- Low DCR and excellent current handling

Core material Ferrite
Core and winding loss See www.coilcraft.com/coreloss
Environment RoHS compliant, halogen free
Terminations RoHS compliant matte tin over nickel over phos bronze. Other terminations available at additional cost.
Weight: 5.1 – 6.2 g
Ambient temperature –40°C to +85°C with (40°C rise) Irms current.
Maximum part temperature +125°C (ambient + temp rise). Derating.
Storage temperature Component: –40°C to +125°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 300/13″ reel; Plastic tape: 24 mm wide, 0.5 mm thick, 20 mm pocket spacing, 10.3 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Typical L vs Current



Typical L vs Frequency



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www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
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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 902-1 Revised 11/05/20

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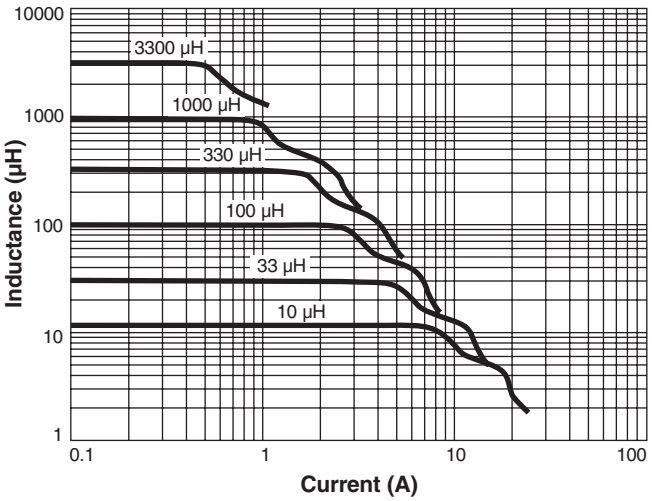
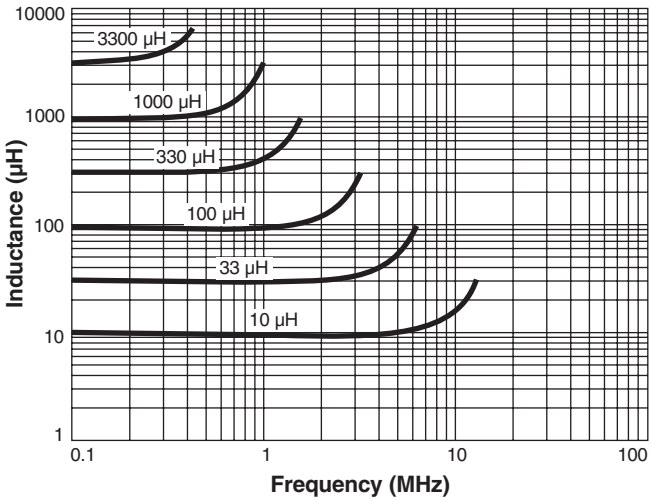
Typical L vs Current



Typical L vs Frequency



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Shielded Power Inductors – MSS1210

Part number[1]	Inductance[2] (µH)	DCR (Ohms)[3] typ	DCR (Ohms)[3] max	SRF typ[4] (MHz)	Isat (A)[5] 10% drop	Isat (A)[5] 20% drop	Isat (A)[5] 30% drop	Irms (A)[6] 20°C rise	Irms (A)[6] 40°C rise
MSS1210-103ME_	10 ±20%	0.014	0.016	15.0	9.6	11.5	12.5	4.70	6.50
MSS1210-153ME_	15 ±20%	0.019	0.022	12.0	8.3	9.9	10.7	4.20	5.70
MSS1210-223ME_	22 ±20%	0.026	0.030	9.5	6.8	8.1	8.8	3.20	4.40
MSS1210-333ME_	33 ±20%	0.033	0.039	7.5	5.4	6.4	6.9	2.90	3.80
MSS1210-473ME_	47 ±20%	0.048	0.056	6.0	4.5	5.4	5.8	2.20	3.00
MSS1210-683ME_	68 ±20%	0.068	0.080	4.5	3.8	4.5	4.9	2.10	2.80
MSS1210-104KE_	100 ±10%	0.106	0.125	3.6	3.1	3.7	4.0	1.80	2.40
MSS1210-124KE_	120 ±10%	0.115	0.135	3.3	2.9	3.4	3.7	1.70	2.30
MSS1210-154KE_	150 ±10%	0.157	0.185	2.9	2.6	3.1	3.4	1.26	1.75
MSS1210-184KE_	180 ±10%	0.173	0.203	2.8	2.3	2.8	3.0	1.20	1.70
MSS1210-224KE_	220 ±10%	0.191	0.225	2.7	2.1	2.5	2.8	1.10	1.50
MSS1210-334KE_	330 ±10%	0.289	0.340	1.8	1.7	2.1	2.2	0.85	1.20
MSS1210-474KE_	470 ±10%	0.434	0.510	1.6	1.4	1.7	1.8	0.70	0.98
MSS1210-684KE_	680 ±10%	0.536	0.630	1.4	1.2	1.4	1.6	0.69	0.91
MSS1210-105KE_	1000 ±10%	0.816	0.960	1.1	0.98	1.2	1.3	0.60	0.83
MSS1210-125KE_	1200 ±10%	1.07	1.26	1.0	0.91	1.1	1.2	0.49	0.67
MSS1210-155KE_	1500 ±10%	1.23	1.45	0.85	0.81	0.96	1.0	0.46	0.65
MSS1210-185KE_	1800 ±10%	1.39	1.63	0.85	0.73	0.87	0.95	0.45	0.63
MSS1210-225KE_	2200 ±10%	1.82	2.14	0.70	0.66	0.79	0.86	0.38	0.52
MSS1210-275KE_	2700 ±10%	2.02	2.38	0.65	0.59	0.71	0.77	0.36	0.50
MSS1210-335KE_	3300 ±10%	2.69	3.17	0.56	0.54	0.64	0.70	0.31	0.43
MSS1210-395KE_	3900 ±10%	2.98	3.50	0.54	0.50	0.60	0.64	0.30	0.41
MSS1210-475KE_	4700 ±10%	3.34	3.93	0.51	0.45	0.54	0.58	0.28	0.39
MSS1210-565KE_	5600 ±10%	3.71	4.37	0.45	0.41	0.49	0.54	0.27	0.38
MSS1210-685KE_	6800 ±10%	4.97	5.85	0.40	0.38	0.45	0.49	0.22	0.31
MSS1210-825KE_	8200 ±10%	5.51	6.48	0.38	0.35	0.41	0.45	0.21	0.28
MSS1210-106KE_	10000 ±10%	7.39	8.69	0.31	0.31	0.37	0.40	0.18	0.24

1. Specify **termination** and **packaging** codes:

MSS1210-106KED

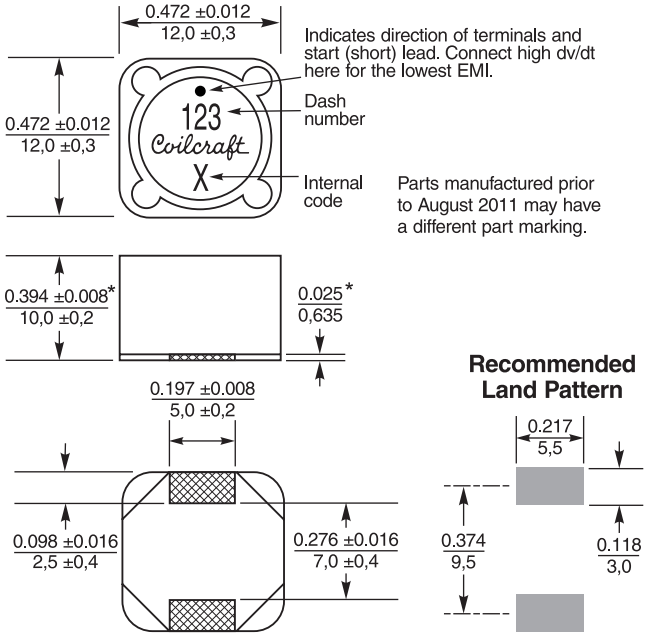
Termination: **E** = RoHS compliant matte tin over nickel over phos bronze.
Special order:
Q = RoHS tin-silver-copper (95.5/4/0.5) or **P** = non-RoHS tin-lead (63/37).

Packaging: **D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (300 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

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 Agilent/HP 4191A or equivalent.
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.



* 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 inches / mm

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