

MSS1048-332NLC Datasheet

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DiGi Electronics Part Number	MSS1048-332NLC-DG
Manufacturer	Coilcraft
Manufacturer Product Number	MSS1048-332NLC
Description	FIXED IND 3.3UH 7.22A 10MOHM SM
Detailed Description	3.3 μ H Shielded Drum Core Inductor 7.22 A 10mOhm Max Nonstandard

This model MSS1048-332NLC is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

MSS1048-332NLC

Series:

MSS1048

Type:

Drum Core

Inductance:

3.3 μ H

Current Rating (Amps):

7.22 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.201" (5.10mm)

Manufacturer:

Coilcraft

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 30%

Current - Saturation (Isat):

4.62A

DC Resistance (DCR):

10mOhm Max

Frequency - Self Resonant:

50MHz

Operating Temperature:

-40°C ~ 85°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.402" L x 0.394" W (10.20mm x 10.00mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

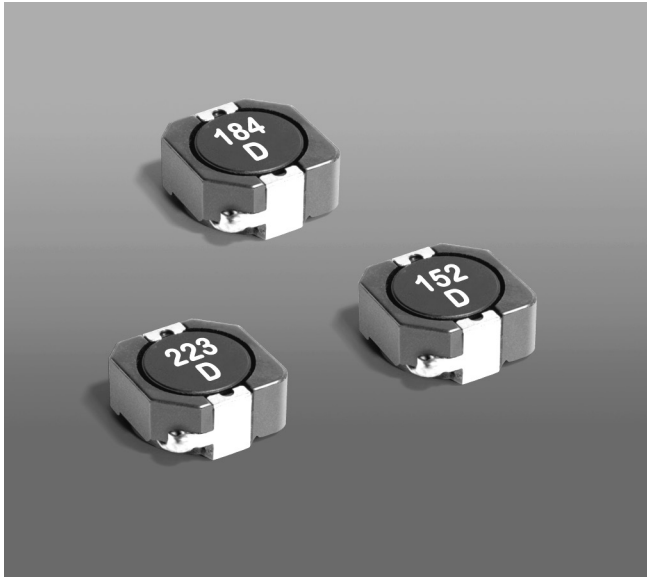
HTSUS:

8504.50.8000

ECCN:

EAR99

Shielded Power Inductors – MSS1048



- 10 × 10.2 mm footprint; 4.8 mm high shielded inductors
- Very low DCR and excellent current handling

Designer's Kit C409 contains 3 each of all values.

Core material Ferrite

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

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

Weight: 1.7 – 1.9 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 200/7" reel; 800/13" reel; Plastic tape: 24 mm wide, 0.35 mm thick, 16 mm pocket spacing, 5.1 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 (mΩ)	SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
MSS1048-801NL_	0.8 ±30%	4.3	180	9.60	12.0	14.1	8.19	12.0
MSS1048-152NL_	1.5 ±30%	5.1	90	5.44	7.80	10.5	7.41	10.8
MSS1048-222NL_	2.2 ±30%	7.2	70	4.92	6.62	8.40	6.63	9.78
MSS1048-332NL_	3.3 ±30%	10.0	50	4.62	6.32	7.38	5.04	7.22
MSS1048-472NL_	4.7 ±30%	11.5	38	4.36	5.62	6.46	4.90	6.90
MSS1048-682NL_	6.8 ±30%	16.3	35	3.60	5.00	5.94	4.52	6.01
MSS1048-822NL_	8.2 ±30%	20.0	28	3.14	4.14	4.84	4.38	5.71
MSS1048-103ML_	10 ±20%	23.0	24	3.08	3.84	4.32	3.99	4.79
MSS1048-153ML_	15 ±20%	36.0	20	2.46	3.06	3.44	3.51	4.26
MSS1048-223ML_	22 ±20%	50.0	12	2.36	2.90	3.28	2.86	3.58
MSS1048-333ML_	33 ±20%	68.0	11	1.66	2.14	2.42	2.12	2.80
MSS1048-473ML_	47 ±20%	120	10	1.44	1.86	2.20	1.83	2.42
MSS1048-563ML_	56 ±20%	126	10	1.36	1.70	1.90	1.71	2.28
MSS1048-683ML_	68 ±20%	176	7.0	1.28	1.60	1.70	1.39	1.88
MSS1048-823ML_	82 ±20%	196	6.0	1.08	1.44	1.64	1.23	1.67
MSS1048-104ML_	100 ±20%	224	6.0	0.99	1.20	1.36	1.09	1.48
MSS1048-154KL_	150 ±10%	330	5.0	0.79	1.02	1.16	0.97	1.33
MSS1048-184KL_	180 ±10%	360	4.5	0.75	0.92	1.02	0.89	1.24
MSS1048-224KL_	220 ±10%	394	4.5	0.67	0.84	0.95	0.85	1.18
MSS1048-334KL_	330 ±10%	748	3.0	0.57	0.69	0.76	0.57	0.82
MSS1048-474KL_	470 ±10%	886	2.7	0.43	0.52	0.62	0.50	0.72

1. Please specify **termination** and **packaging** codes:

MSS1048-334KLC

Termination: L = RoHS compliant matte tin over nickel over copper.

Special order:

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

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (200 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (800 parts per full reel).

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 C.

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.
- SRF measured using an Agilent/HP 4192A impedance analyzer or equivalent.
- DC current at 25°C that causes the specified inductance drop from its value without current. [Click for temperature derating information.](#)
- 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.](#)
- Electrical specifications at 25°C.

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



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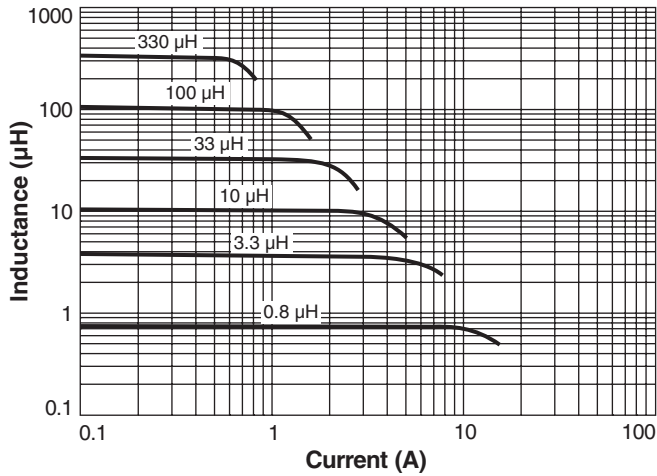
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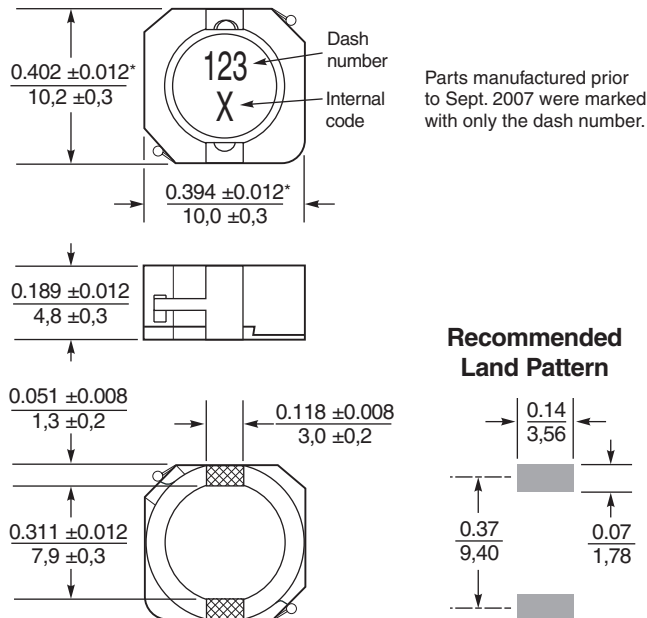
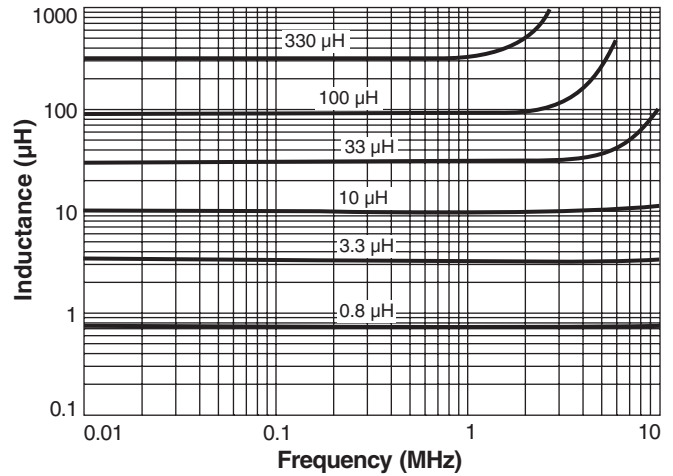


SMT Power Inductors – MSS1048

Typical L vs Current



Typical L vs Frequency



*Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.005 in / 0,13 mm.

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



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