

NEW!

High Voltage Power Inductors MSS1514V



- 15.5 × 15.5 mm footprint; 13.9 mm high shielded inductors
- High voltage rating of 800 V
- 6 inductance values from 33 μH to 1000 μH
- 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: 9.6 – 10.6 g

Operating voltage 800 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 175/13" reel; Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 14.3 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 (Ohms)	SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
MSS1514V-333MED	33 ±20%	0.026	8.6	5.6	6.4	7.2	3.8	4.9
MSS1514V-473MED	47 ±20%	0.038	7.3	4.7	5.3	5.9	3.0	3.9
MSS1514V-104KED	100 ±10%	0.064	5.0	3.2	3.7	4.0	2.4	3.1
MSS1514V-224KED	220 ±10%	0.152	3.0	2.2	2.5	2.7	1.6	2.2
MSS1514V-474KED	470 ±10%	0.278	2.3	1.5	1.7	1.9	1.2	1.7
MSS1514V-105KED	1000 ±10%	0.630	1.5	1.0	1.2	1.3	1.5	1.1

1. Please specify **termination code:**

MSS1514V-105KED

Tolerance: K = 10%, M = 20%

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 (175 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.](#)

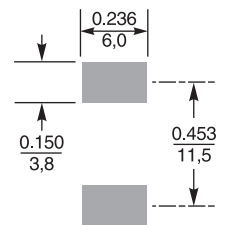
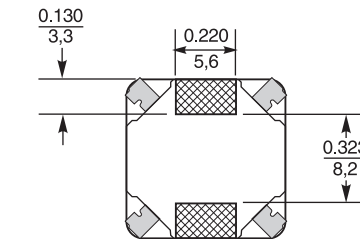
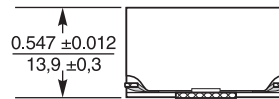
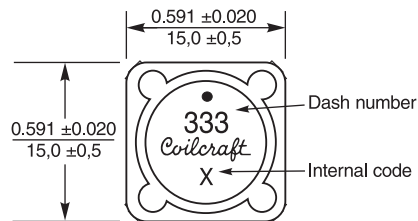
6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

[Click for temperature derating information.](#)

7. Electrical specifications at 25°C.

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

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



Recommended Land Pattern



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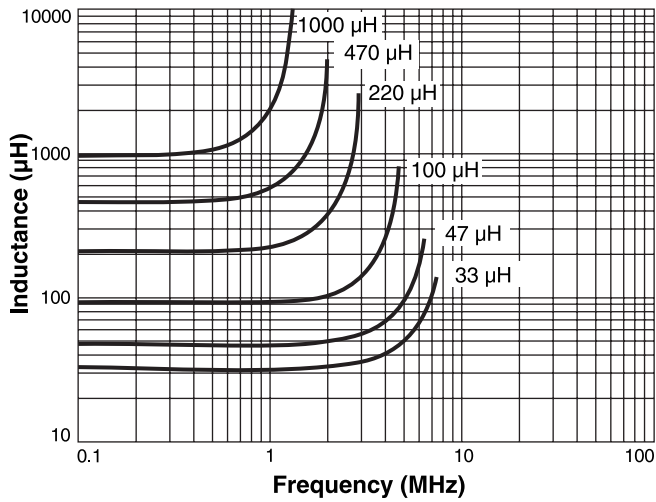
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

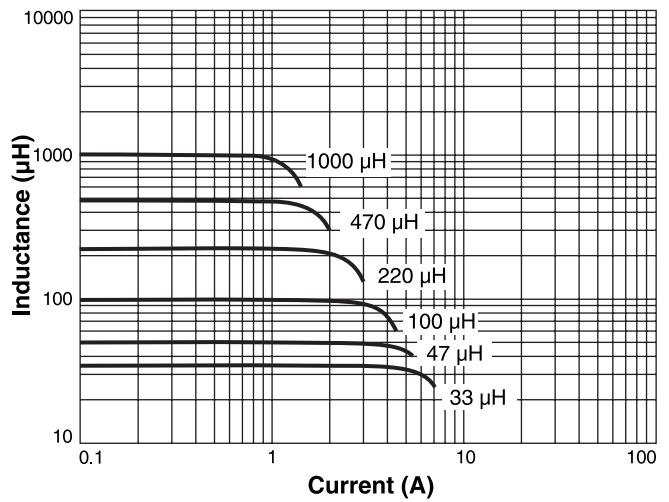


SMT High Voltage Power Inductors – MSS1514V Series

Typical L vs Frequency



Typical L vs Current



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