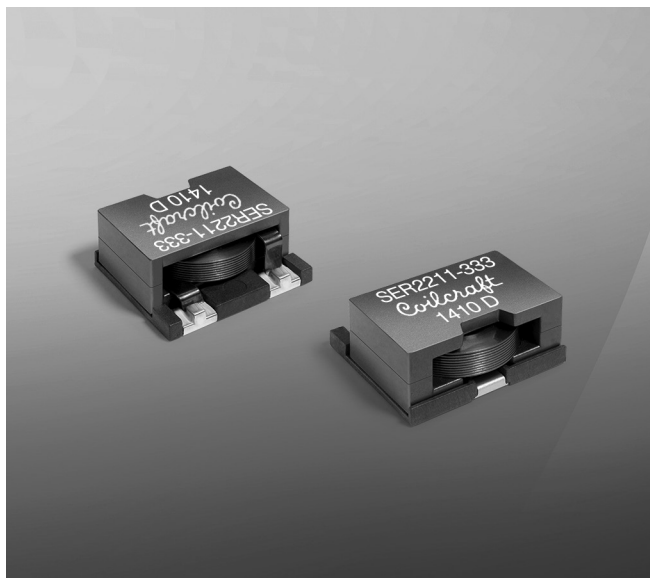




# Shielded Power Inductors – SER2211



- Exceptionally high current carrying capability – up to 27.5 Amps.
- Low DC resistance – only 1.05 mOhm.
- Custom values may be available to meet specific applications.

**Core material** Ferrite

**Environmental** RoHS compliant, halogen free

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

**Weight** 12.5 – 13.5 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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 200 per 13" reel; Plastic tape: 44 mm wide, 0.5 mm thick, 28 mm pocket spacing, 10.2 mm pocket depth

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787 PCB Washing.pdf](#).

Part number <sup>1</sup>	Inductance <sup>2</sup> ±20% (µH)	DCR (mOhm) <sup>3</sup>		SRF typ <sup>4</sup> (MHz)	Isat (A) <sup>5</sup>			Irms (A) <sup>6</sup>	
		typ	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SER2211-302MED	3.0	1.05	1.20	29.0	23.5	26.0	27.5	25.0	35.0
SER2211-532MED	5.3	1.63	1.80	24.0	15.8	18.0	19.0	19.8	26.0
SER2211-822MED	8.2	2.30	2.76	18.0	13.4	15.0	15.8	13.9	18.5
SER2211-123MED	12.0	3.15	3.78	15.0	11.1	12.4	13.0	11.4	16.0
SER2211-273MED	27.0	6.84	8.21	12.0	7.7	8.5	8.9	9.4	13.1
SER2211-333MED	33.0	8.95	10.7	11.0	7.1	8.0	8.3	7.6	10.6
SER2211-473MED	47.0	8.95	10.7	8.0	4.4	5.2	5.6	7.6	10.6

1. When ordering, please specify **termination** code:

**SER2211-473MED**

**Termination:** **E** = RoHS compliant matte-tin over nickel over phos bronze. Special order: **Q** = RoHS tin-silver-copper over 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 (200 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A or equivalent.
- DCR measured on a micro-ohmmeter.
- SRF measured using an Agilent/HP 4391A impedance analyzer and an Agilent/HP 16193A test fixture.
- DC current at which the inductance drops the specified from its value without current. [Click for temperature derating information.](#)
- Current that causes a 40°C 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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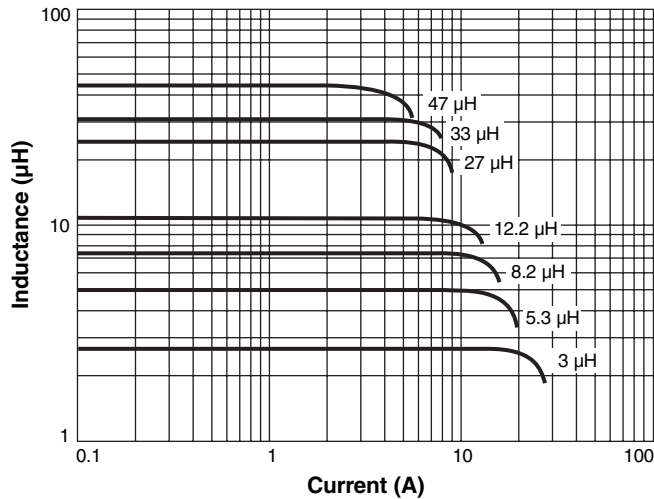
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

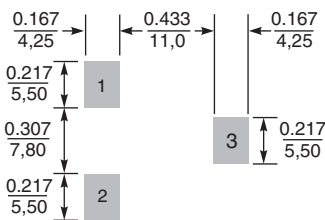
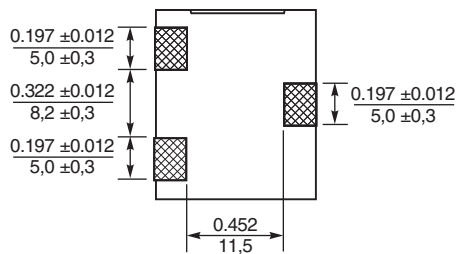
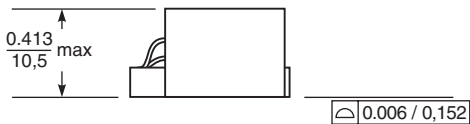
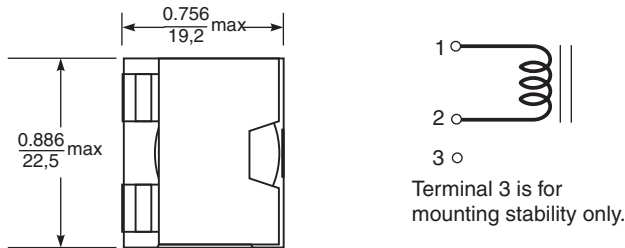
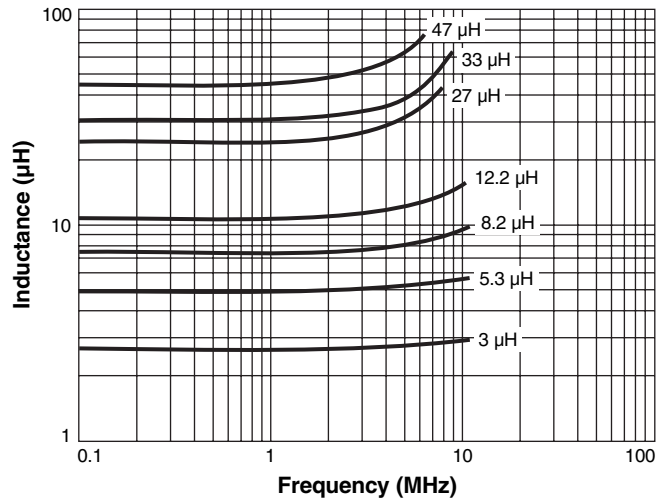


# Shielded Power Inductors - SER2211 Series

## Typical L vs Current



## Typical L vs Frequency



Recommended Land Pattern

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



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