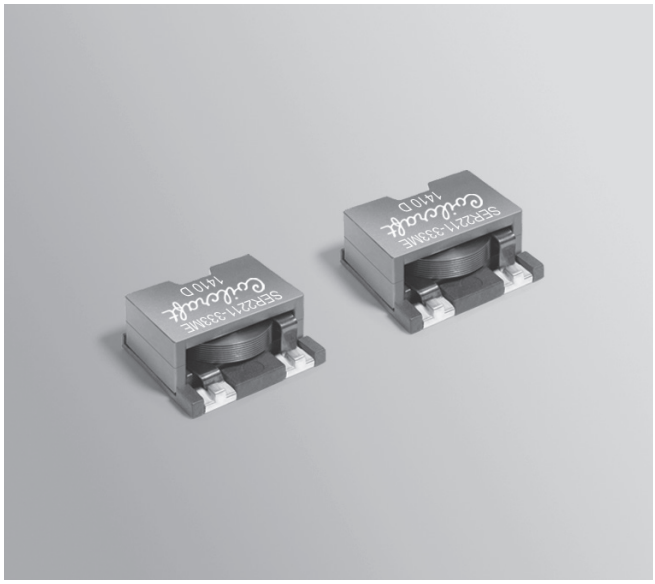
Shielded Power Inductors – SER2211



- 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
- AEC-200 qualified.

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)
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[1]	Inductance[2] ±20% (µH)	DCR (mOhm)[3] typ	DCR (mOhm)[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
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).

2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A or equivalent.
3. DCR measured on a micro-ohmmeter.
4. SRF measured using an Agilent/HP 4391A impedance analyzer and an Agilent/HP 16193A test fixture.
5. DC current at which the inductance drops the specified from its value without current. Click for temperature derating information.
6. 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.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Coilcraft
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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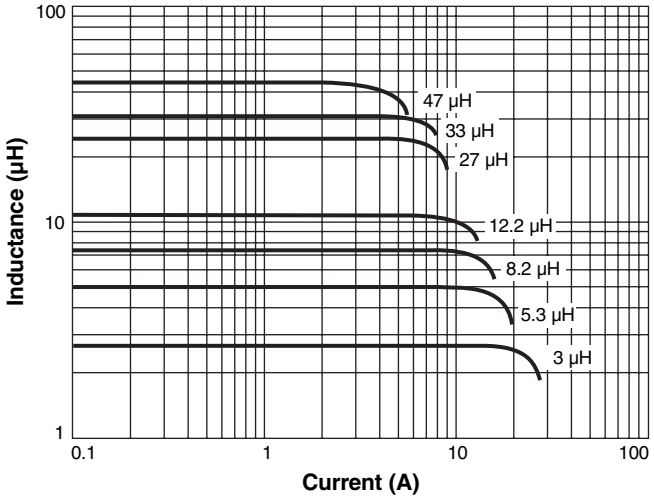
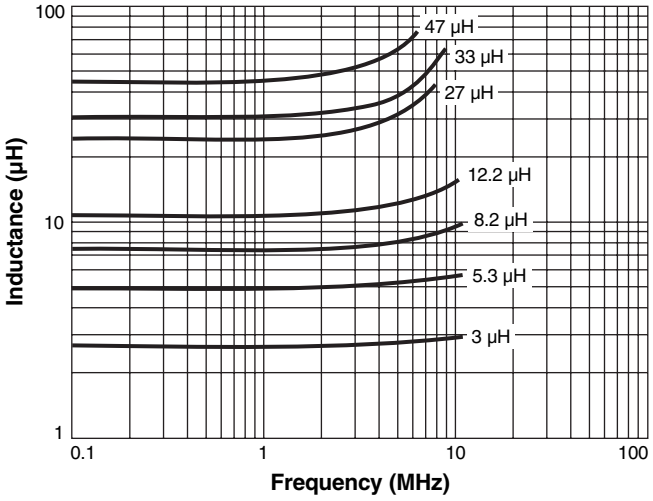
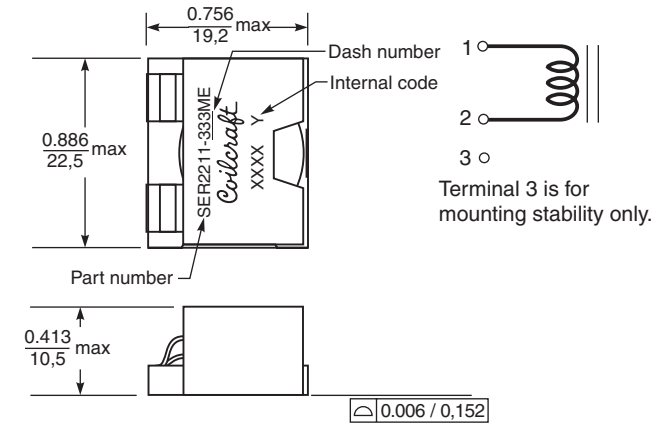
Shielded Power Inductors - SER2211 Series

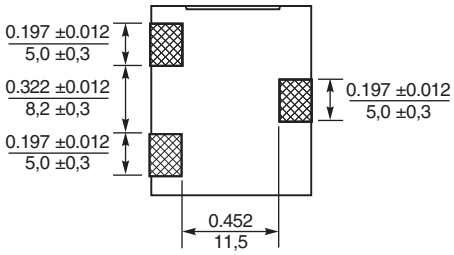
Typical L vs Current

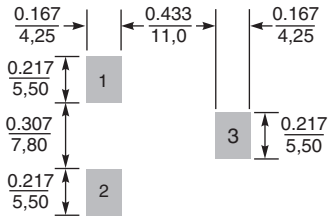


Typical L vs Frequency









Recommended Land Pattern

Dimensions are in inches / mm

Parts shown are preproduction products available for evaluation only.

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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