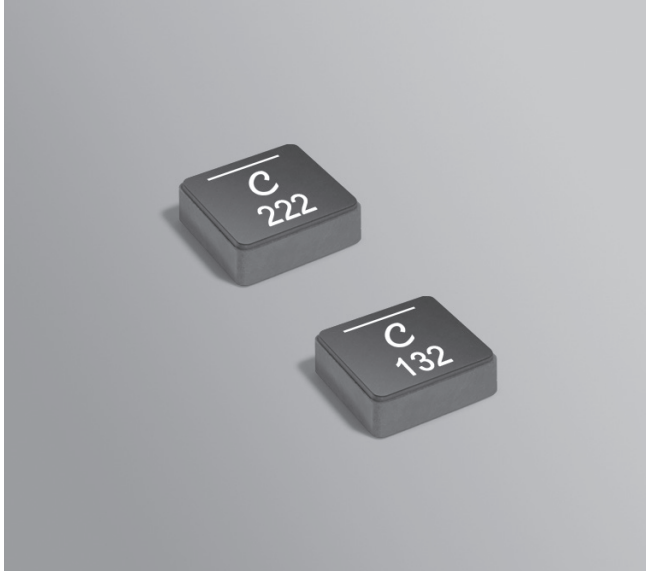




Shielded Power Inductors – XAL1350



- AEC-Q200 qualified
- High current and very low DCR
- Soft saturation makes them ideal for VRM/VRD applications.

Core material Composite

Environmental RoHS compliant, halogen free

Terminations RoHS compliant tin-silver over copper. Other terminations available at additional cost.

Weight 4.5 – 4.9 g

Operating voltage: 60 V⁷

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: –55°C to +165°C.

Tape and reel packaging: –55°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 400/13" reel Plastic tape: 24 mm wide, 0.3 mm thick, 20 mm pocket spacing, 5.2 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 (μH)	Percent tolerance	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat ⁵ (A)	Irms (A) ⁶	
			typ	max			20°C rise	40°C rise
XAL1350-631MED	0.63	20,30	1.50	1.70	50	74	28	38
XAL1350-931MED	0.93	20,30	2.00	2.20	42	60	25	33
XAL1350-132MED	1.3	20,30	2.50	2.70	33	56	23	32
XAL1350-222MED	2.2	20,30	4.16	4.80	23	46	19	24
XAL1350-302MED	3.0	20,30	5.86	6.80	19	37	16	21

1. When ordering, please specify **tolerance** and **termination** codes:

XAL1350-302MED

Tolerance: M = 20%, N = 30%
(Table above shows stock tolerances in bold.)

Termination: E = RoHS compliant tin-silver over copper.
Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (400 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 1 MHz, 0.1 Vrms, 0 Adc.

3. DCR measured on a micro-ohmmeter.

4. SRF measured using an Agilent/HP 4395A or equivalent.

5. DC current at which the inductance drops 30% (typ) from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient. Temperature rise is highly dependent on many factors including pcb land pattern, trace size, air flow, and proximity to other components. Therefore temperature rise should be verified in application conditions.

7. Voltage capability varies by part number and in many cases may be higher than the listed voltage.

8. Electrical specifications at 25°C.

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



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Document 1032-1 Revised 03/05/26

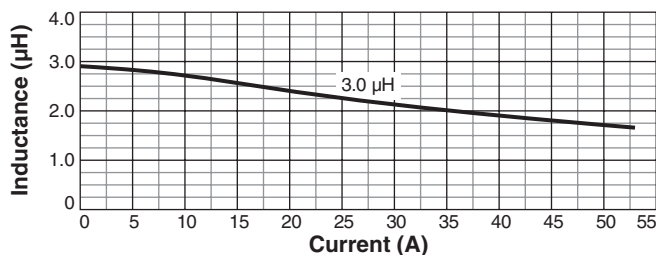
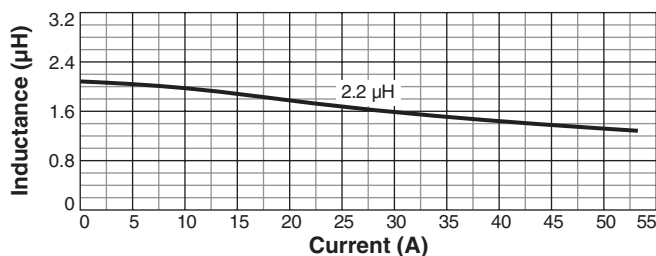
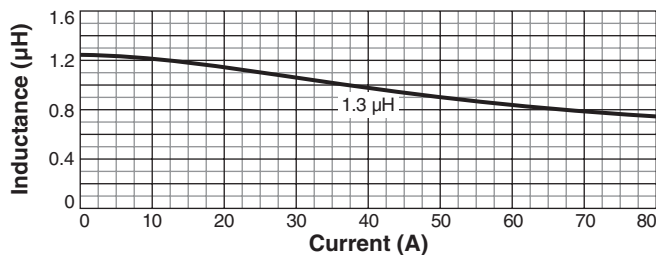
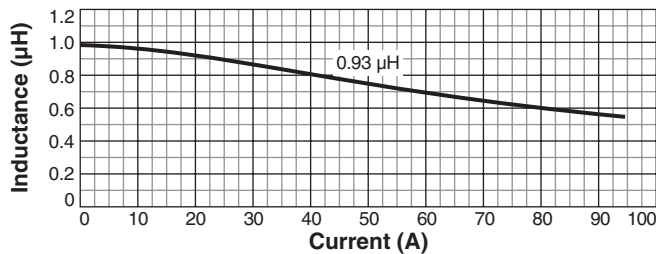
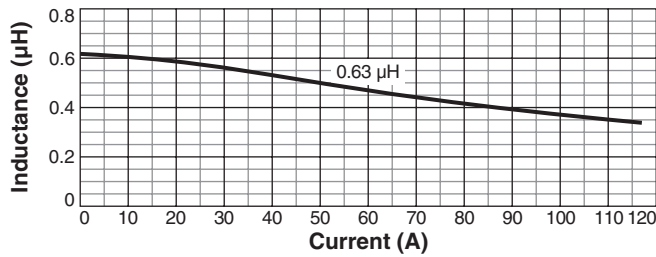
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

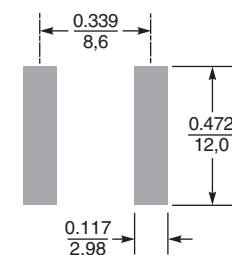
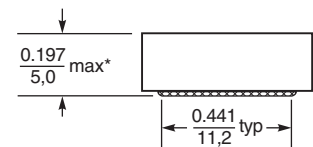
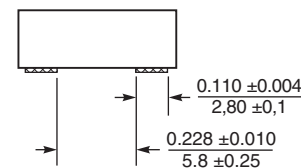
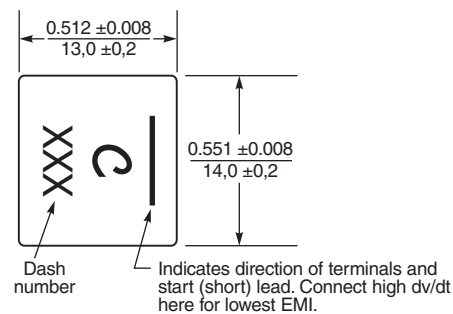
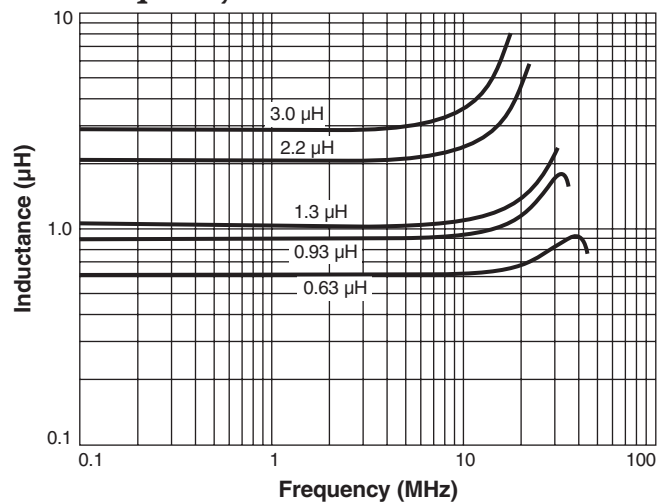


Shielded Power Inductors – XAL1350

L vs Current



L vs Frequency



Recommended Land Pattern

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

* For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Specification subject to change without notice. Please check web site for latest information.