

- · Industry's lowest DCR and ultra low AC losses
- · Superior current handling with soft saturation characteristics
- AEC-Q200 (-40°C to +125°C)

Core material Composite

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

Environmental RoHS compliant, halogen free

Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other

terminations available at additional cost.

Weight: XGL3510: 0.054 g; XGL3509: 0.049 g

Operating voltage: 0 - 80 V

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 2000/7" reel; 7000/13" reel Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 1.22 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787\_PCB\_Washing.pdf.

	Inductance <sup>2</sup>	DCR (mOhms)3		SRF typ4	Isat (A) <sup>5</sup>			Irms (A) <sup>6</sup>	
Part number <sup>1</sup>	±20% (μH)	typ	max	(MHz)	10% drop	20% drop	30% drop	20°C rise	40°C rise
XGL3510-900ME_	0.09	4.5	5.4	380	6.1	9.7	14.7	13.0	17.4
XGL3509-900ME_	0.09	5.9	7.1	360	5.6	9.1	13.9	10.2	13.8

1. When ordering, please specify termination and packaging codes:

## XGL3509-900MEC

**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: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 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 (7000 per full reel).

Factory order only, not stocked.

- 2. Inductance tested at 1 MHz, 0.1 Vrms, 0 Adc.
- 3. DCR measured on a micro-ohmmeter.
- 4. SRF measured using Agilent/HP 4395A or equivalent.
- 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.

## **Irms Testing**

Irms testing was performed on 0.75 inch wide  $\times 0.25$  inch thick copper traces in still air.

Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.



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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.

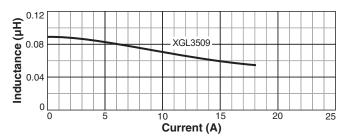


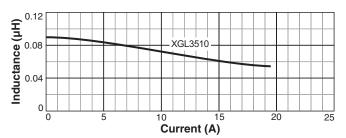
## Shielded Power Inductors - XGL3509, XGL3510

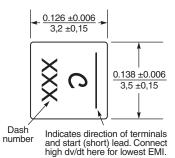
## L vs Current

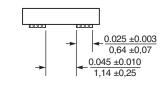


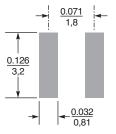




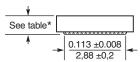








Recommended Land Pattern



Part	Height max	
number	(in / mm)	Weight
XGL3509	0.035 / 0,9	0.049 g
XGL3510	0.039 / 1,0	0.054 g

\*For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Dimensions before mounting can be an additional 0.005 inch / 0.13 mm.

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



Specification subject to change without notice.

Please check web site for latest information.