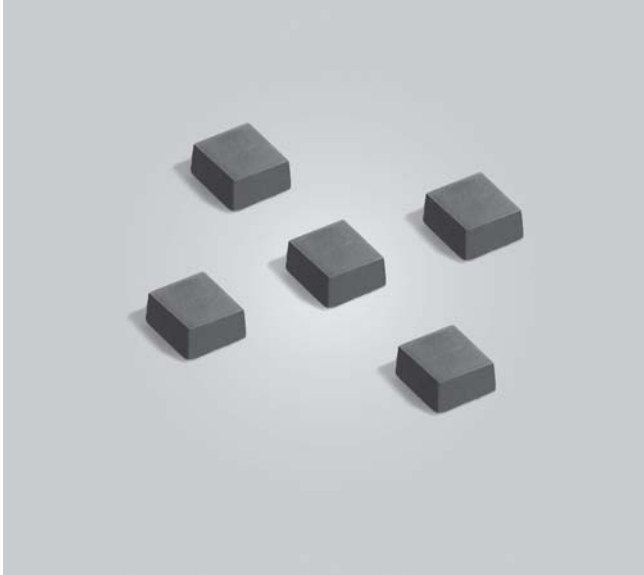




NEW! 25-05518

Shielded Power Inductor – XFL3012



- High current, magnetically shielded power inductors
- 3 mm × 3 mm footprint; only 1.2 mm tall

Designer's Kit C440 contains 5 of each XFL3012 and XFL3010 value
Core material Composite

Environmental RoHS compliant, halogen free

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

Weight 53 mg

Ambient temperature –40°C to +90°C with I_{rms} current, +90°C to +130°C with derated current

Storage temperature Component: –40°C to +130°C.
 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 2000/7" reel; 7500/13" reel Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.25 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² ±20% (µH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat (A) ⁵			I _{rms} (A) ⁶	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
XFL3012-221ME_	0.22	14	19	340	2.5	3.5	4.1	2.6	3.5
XFL3012-361ME_	0.36	19	23	210	2.3	3.1	3.5	2.2	3.0
XFL3012-601ME_	0.60	23	29	167	1.9	2.6	3.0	2.1	2.8
XFL3012-102ME_	1.0	35	42	115	1.6	2.2	2.5	1.9	2.6
XFL3012-152ME_	1.5	60	72	94.4	1.3	1.8	2.2	1.6	2.2
XFL3012-222ME_	2.2	81	97	73.2	1.0	1.3	1.6	1.4	1.9
XFL3012-332ME_	3.3	106	127	61.6	0.87	1.2	1.4	1.2	1.6
XFL3012-472ME_	4.7	143	171	52.6	0.72	1.0	1.2	1.0	1.4

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

↓
XFL3012-472MEC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel).

B = Less than full reel. In tape, but not machine ready.

To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (3500 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 V_{rms}, 0 Adc.

3. DCR measured on a micro-ohmmeter.

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

5. DC current at which the inductance drops the specified amount from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

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

Coilcraft®

Specifications subject to change without notice.

Please check our website for latest information. Document 747-1 Revised 06/28/10

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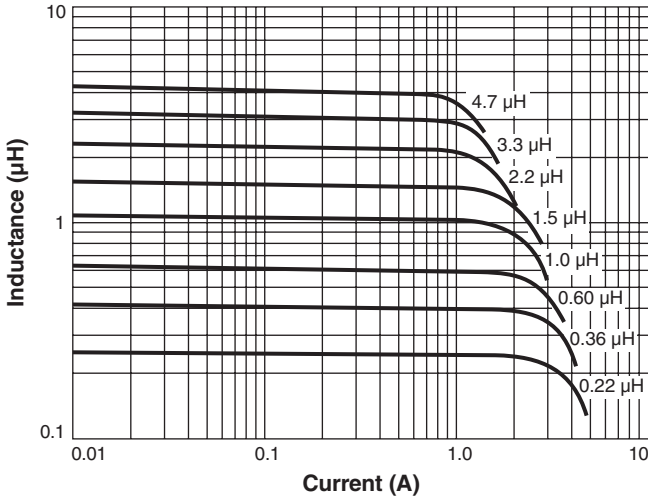
E-mail info@coilcraft.com Web <http://www.coilcraft.com>



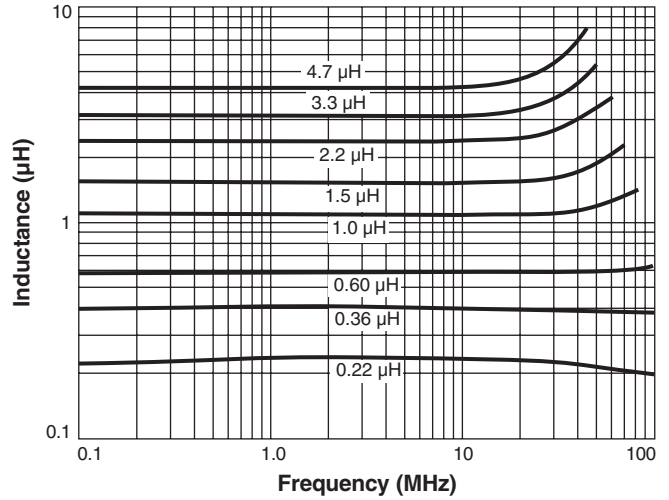
NEW!

SMT Power Inductor – XFL3012

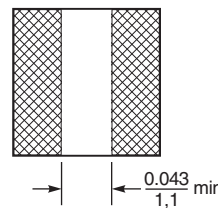
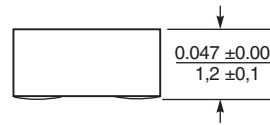
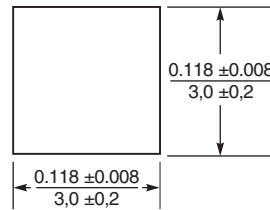
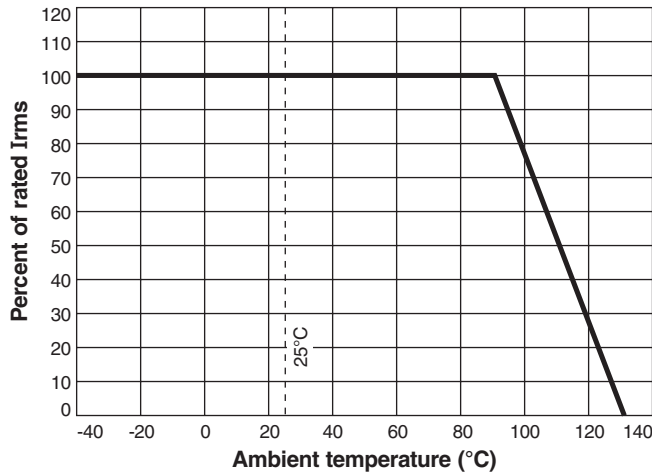
L vs Current



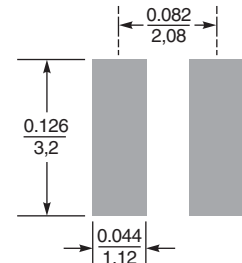
L vs Frequency



Typical Irms Derating



Recommended Land Pattern



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



Specifications subject to change without notice. Please check our website for latest information. Document 747-2 Revised 06/28/10

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