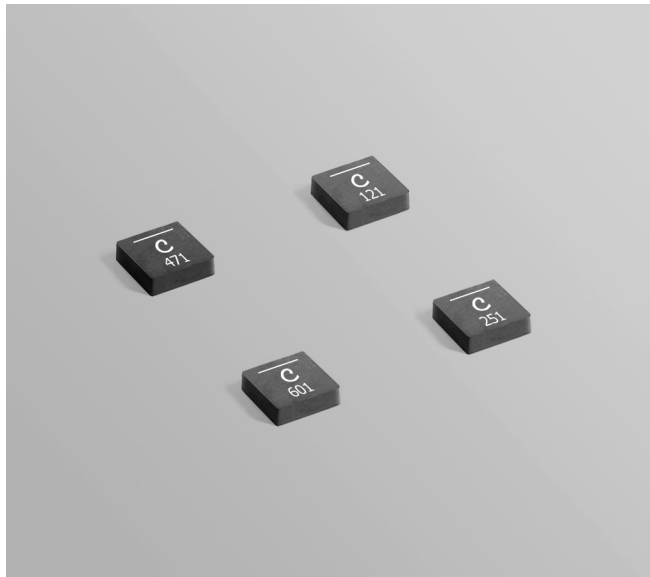


**NEW!**

Shielded Power Inductors – XFL4012



- High current ratings and low DCR
- Very low profile, only 1.2 mm high

Designer's Kit C455 contains 5 of each XFL4012 and XFL4015 value.

Core material Composite

Weight 85 – 95 mg

Environmental RoHS compliant, halogen free

Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other terminations available at additional cost.

Ambient temperature –40°C to +125°C with Irms current, +125°C to +165°C with derated current.

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 1500/7" reel; 5000/13" reel Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 1.40 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

| Part number ¹ | Inductance ² ±20% (µH) | DCR (mOhms) ³ | | SRF typ ⁴ (MHz) | Isat (A) ⁵ | | | Irms (A) ⁶ | |
|--------------------------|--------------------------------------|--------------------------|-------|-------------------------------|-----------------------|----------|----------|-----------------------|-----------|
| | | typ | max | | 10% drop | 20% drop | 30% drop | 20°C rise | 40°C rise |
| XFL4012-121ME_ | 0.12 | 5.20 | 5.88 | 220 | 6.9 | 9.8 | 11.3 | 9.60 | 13.20 |
| XFL4012-251ME_ | 0.25 | 7.64 | 8.40 | 150 | 4.4 | 7.7 | 9.7 | 8.15 | 11.45 |
| XFL4012-471ME_ | 0.47 | 14.07 | 15.48 | 115 | 3.2 | 5.5 | 6.7 | 6.25 | 8.70 |
| XFL4012-601ME_ | 0.60 | 17.40 | 19.14 | 95.0 | 2.8 | 5.0 | 6.5 | 5.45 | 7.65 |

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

XFL4012-601MEC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (1500 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 (5000 parts per full reel).

2. Inductance tested at 100 kHz, 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 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.

Irms Testing

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

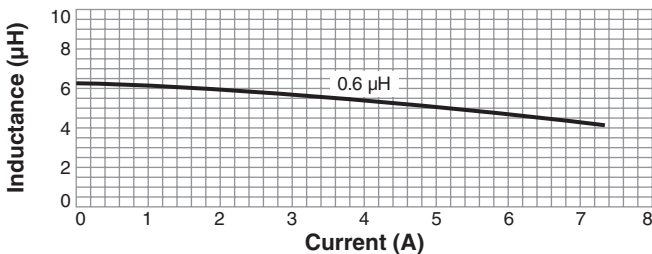
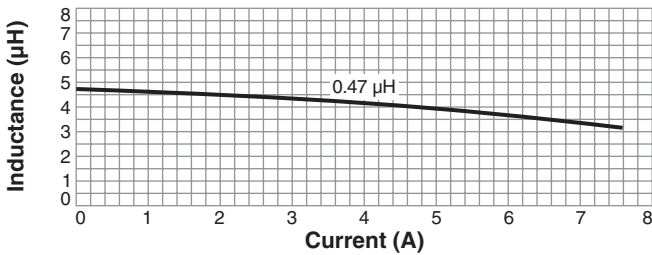
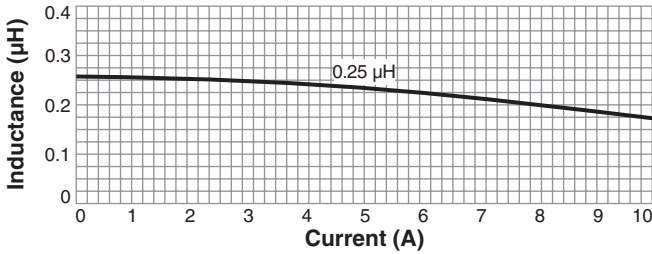
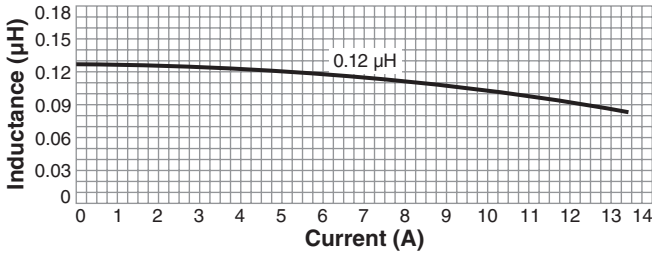
Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.



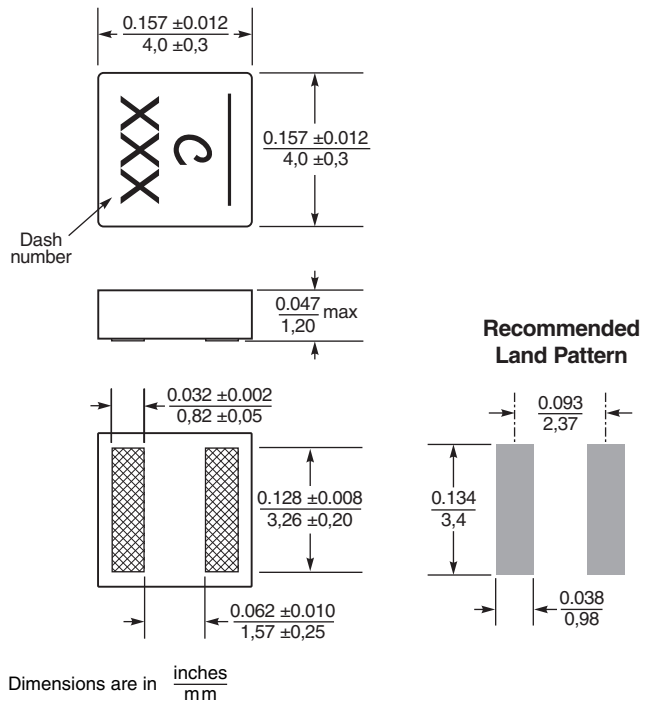
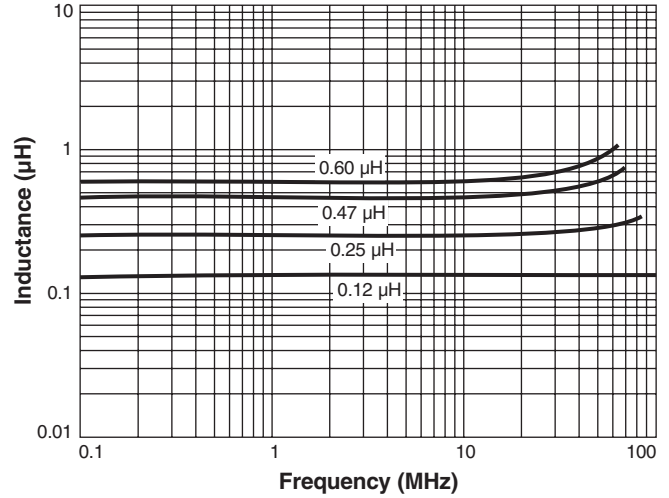
NEW!

Shielded Power Inductors – XFL4012

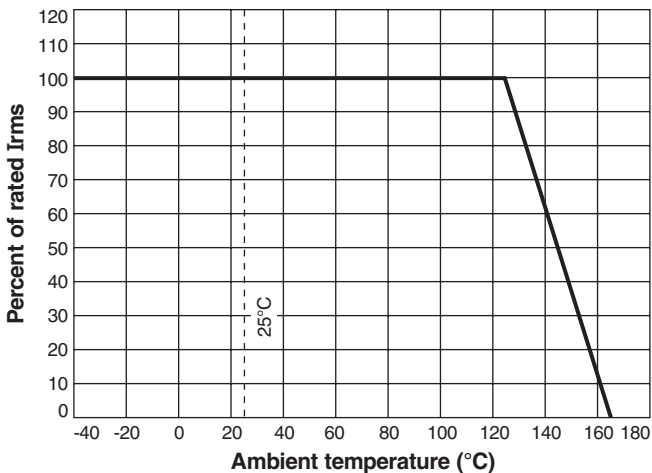
L vs Current



L vs Frequency



Irms Derating



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<http://moschip.ru/get-element>

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