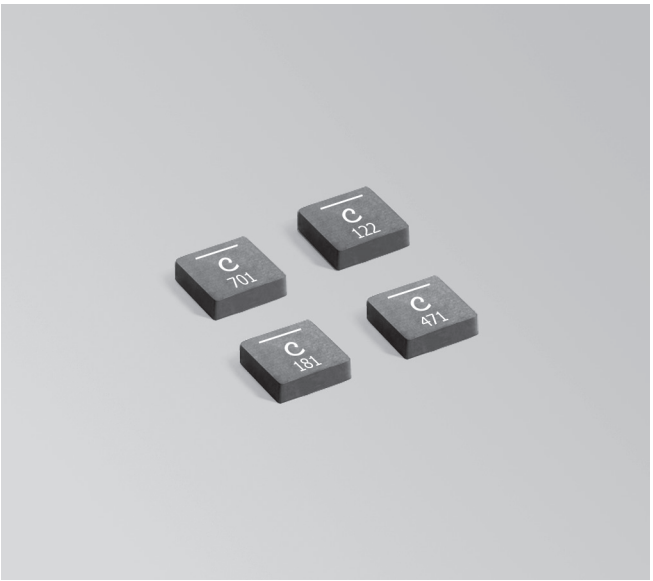
NEW!

Shielded Power Inductors – XFL4015



- Very low profile, only 1.5 mm high
- Extremely low DCR, excellent current handling, soft saturation

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

Core material Composite

Environmental RoHS compliant, halogen free

Weight 0.128 - 0.136 g

Terminations RoHS compliant tin-silver 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 +165°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 1000/7″reel; 4000/13″ reel Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 1.78 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number[1]	Inductance[2] ±20% (µH)	DCR (mOhms)[3] typ	DCR (mOhms)[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
XFL4015-181ME_	0.18	4.20	4.70	150	6.2	8.0	8.5	12.0	14.5
XFL4015-331ME_	0.33	6.80	7.50	112	5.5	7.0	7.5	9.6	13.2
XFL4015-471ME_	0.47	7.60	8.36	89	3.5	5.4	6.6	9.1	11.2
XFL4015-701ME_	0.70	9.50	10.45	70	3.3	5.3	6.3	7.2	10.1
XFL4015-122ME_	1.2	18.8	20.7	61	2.6	3.7	4.5	5.1	7.1

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

   XFL4015-471MEC

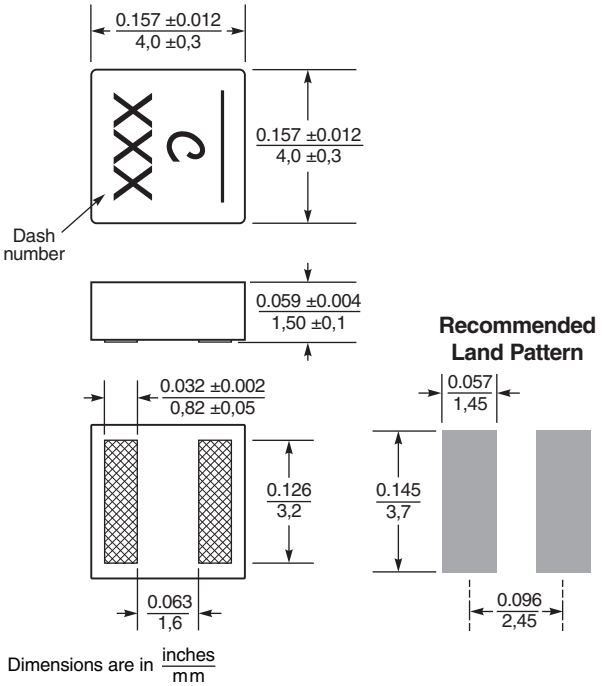
   Packaging: C = 7″ machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel).
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter C instead.
   D = 13″ machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (4000 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.



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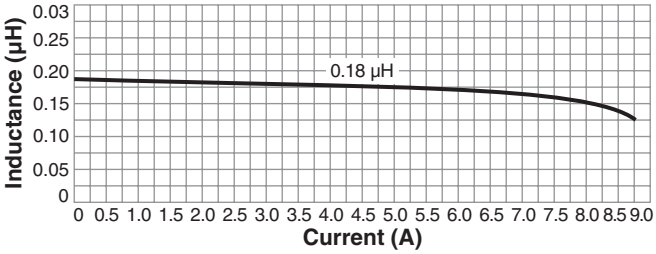
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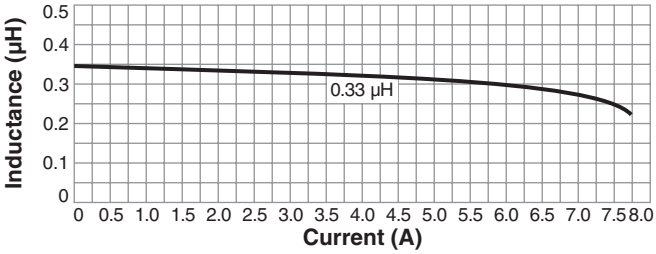
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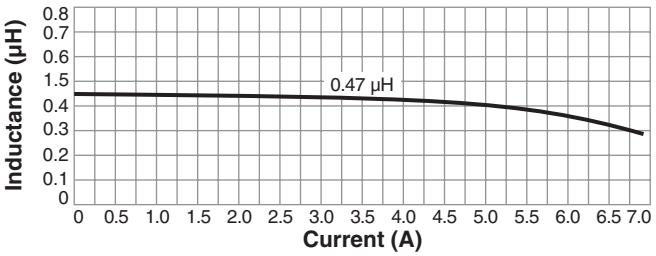
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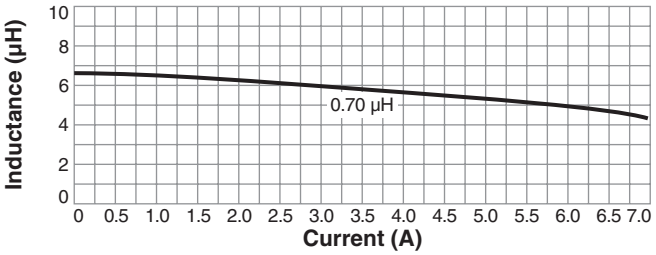
Shielded Power Inductors – XFL4015

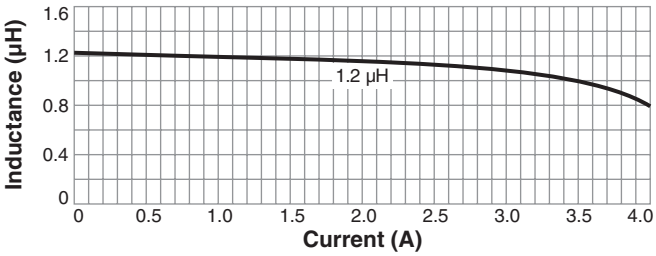
Typical L vs Current



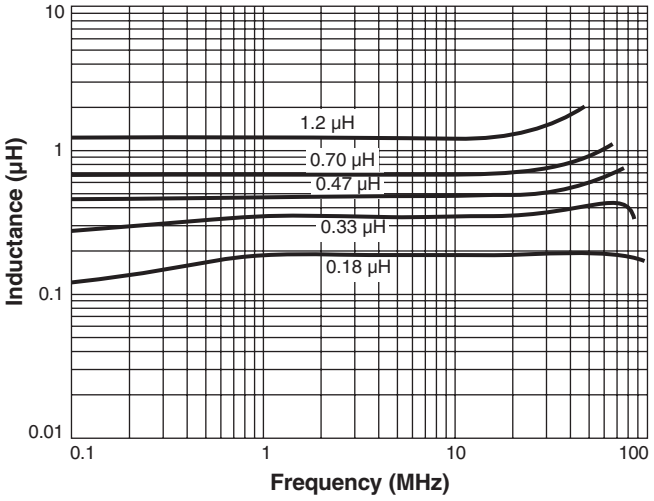




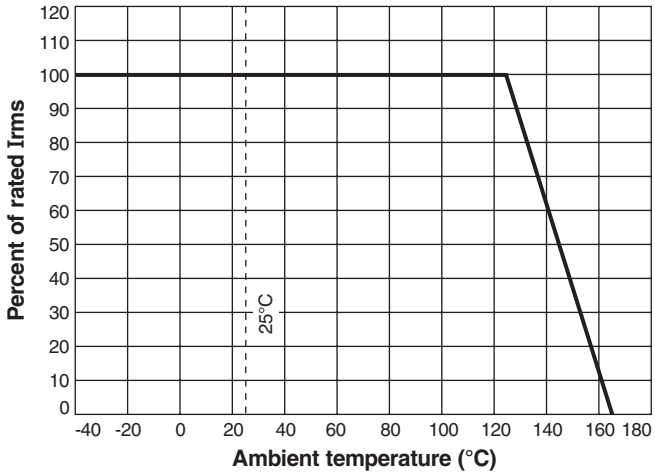




Typical L vs Frequency



Irms Derating



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