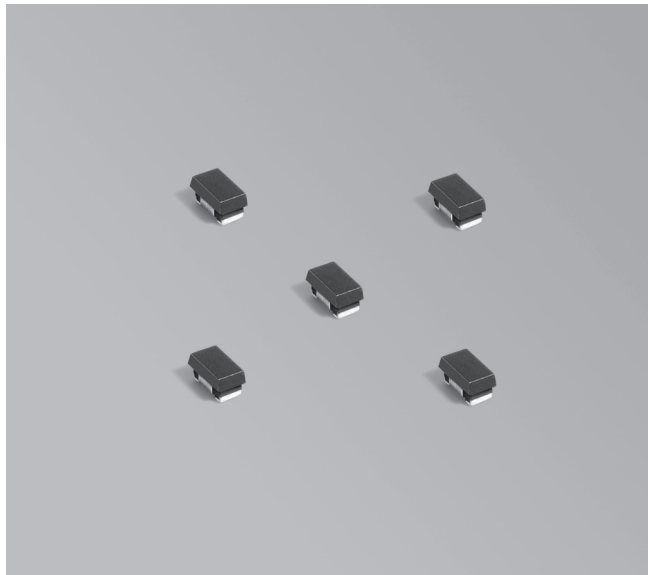


**NEW!**

Shielded Power Inductors – PFL1609



- Low cost, low profile 0603 size power inductor
- Less than 1 mm high; requires less than 2 mm² of board space
- Lower DCR than other parts this size

Designer's Kit C433 contains 20 of each PFL1609 and PFL2010 value
Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over silver-platinum-glass frit. Other terminations available at additional cost.

Core material Composite

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

Weight 7.9 – 8.3 mg

Ambient temperature –40°C to +85°C with Irms current, +85°C to +125°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 2000 per 7" reel Paper tape: 8 mm wide, 1.0 mm thick, 2 mm pocket spacing

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² ±20% (µH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat (mA) ⁵			Irms (mA) ⁶	
		typ	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
PFL1609-471ME_	0.47	83	100	650	760	990	1200	1000	1300
PFL1609-561ME_	0.56	110	130	600	710	920	1100	1100	1400
PFL1609-681ME_	0.68	145	170	520	610	780	900	1100	1400
PFL1609-102ME_	1.0	200	230	445	480	690	760	650	850
PFL1609-222ME_	2.2	410	470	130	300	390	470	480	630
PFL1609-472ME_	4.7	620	700	60	240	300	370	380	500

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

PFL1609-472MEW

Packaging: **W** = 7" machine-ready reel. EIA-481 punched paper tape (2000 parts per full reel).

U = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter W instead.

2. Inductance tested at 7.9 MHz, 0.1 Vrms using a Coilcraft SMD-F test fixture with an Agilent/HP 4286A impedance analyzer and Coilcraft-provided correlation pieces.

3. DCR measured using a micro-ohmmeter.

4. SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.

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.



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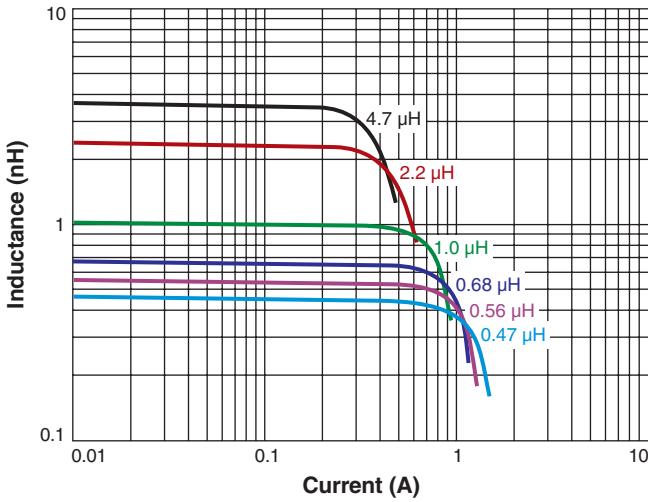
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.



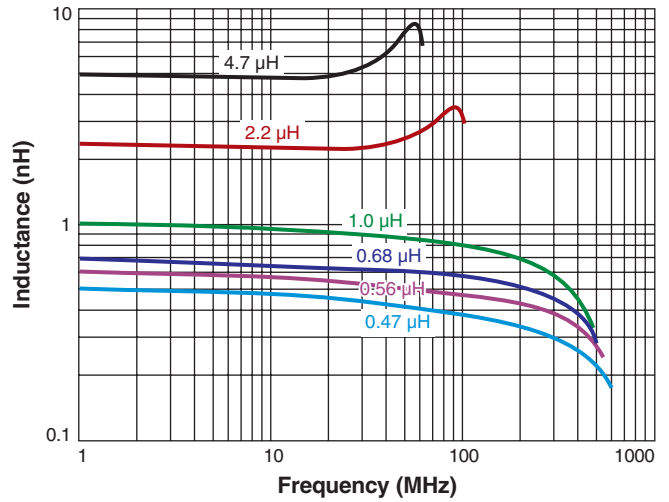
NEW!

PFL1609 Series

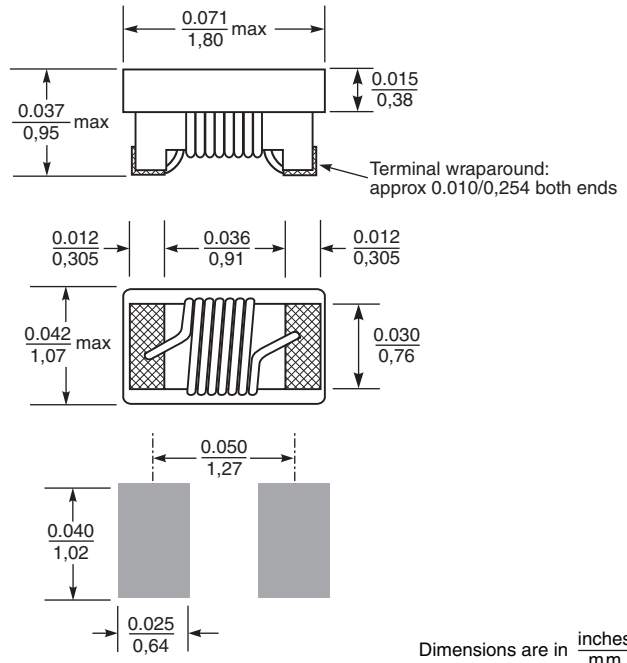
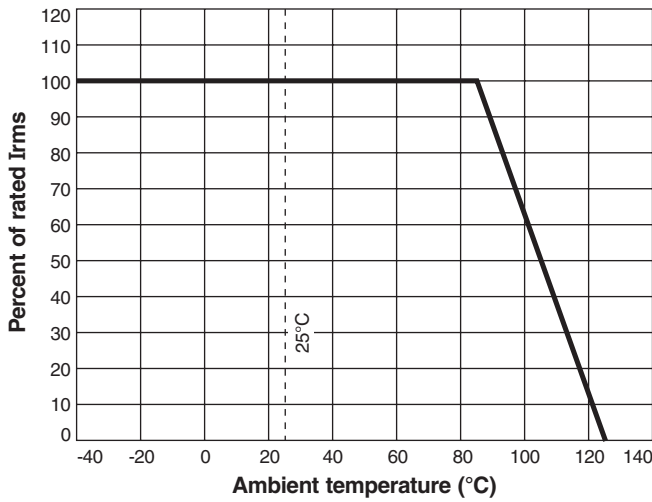
L vs Current



L vs Frequency



Irms Derating



Recommended Land Pattern



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