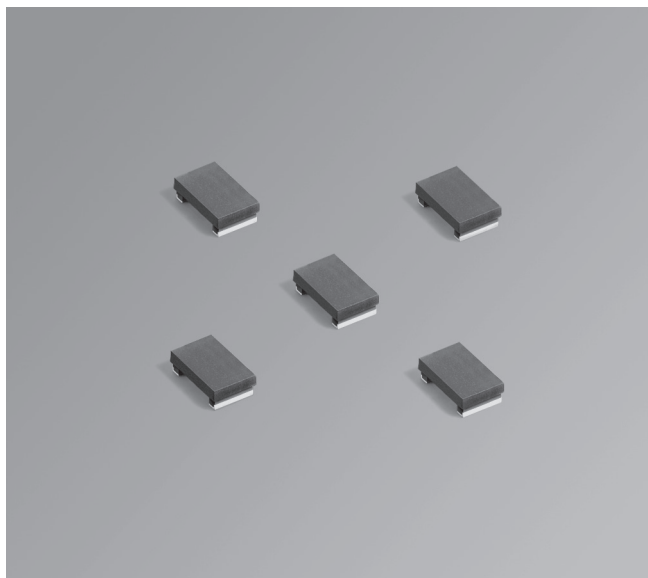


**NEW!**

Shielded Power Inductors – PFL2510



- Low cost, low profile 1008 size power inductor
- Provides the current handling of much larger inductors; up to 4100 mA

Designer's Kit C444 contains 5 of each value and 5 of each PFL2512

Environmental RoHS compliant, halogen free

Core material Composite

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

Weight 17.7 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 2000/7" reel; 7500/13" reel. Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.14 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 (mA) ⁵			Irms (mA) ⁶	
		typ	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
PFL2510-151ME_	0.15	27	36	970	3400	3900	4100	2200	2900
PFL2510-221ME_	0.22	37	47	815	2900	3300	3400	1800	2500
PFL2510-681ME_	0.68	60	70	500	1300	1900	2300	1400	1800
PFL2510-102ME_	1.0	72	83	375	1300	1600	1800	1400	1900
PFL2510-222ME_	2.2	195	240	310	850	1100	1300	830	1100
PFL2510-332ME_	3.3	490	590	245	700	890	990	530	710
PFL2510-472ME_	4.7	760	900	175	660	830	890	430	580

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

PFL2510-472MEC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 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 (7500 parts per full reel).

2. Inductance tested at 7.9 MHz, 0.1 Vrms using a Coilcraft SMD-A test fixture with an Agilent/HP 4286 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 that causes the specified inductance drop 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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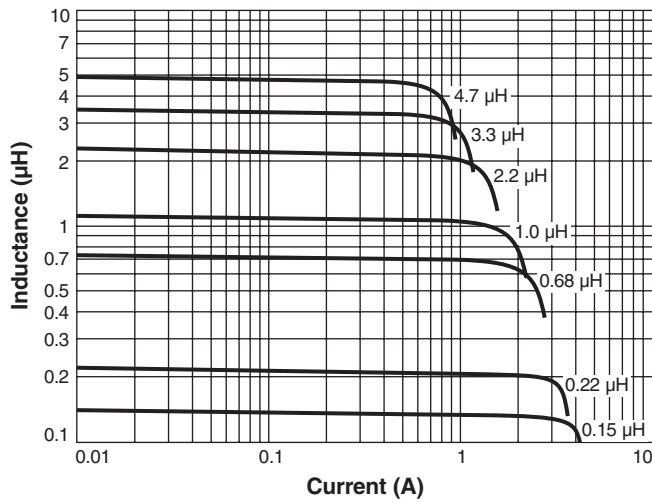
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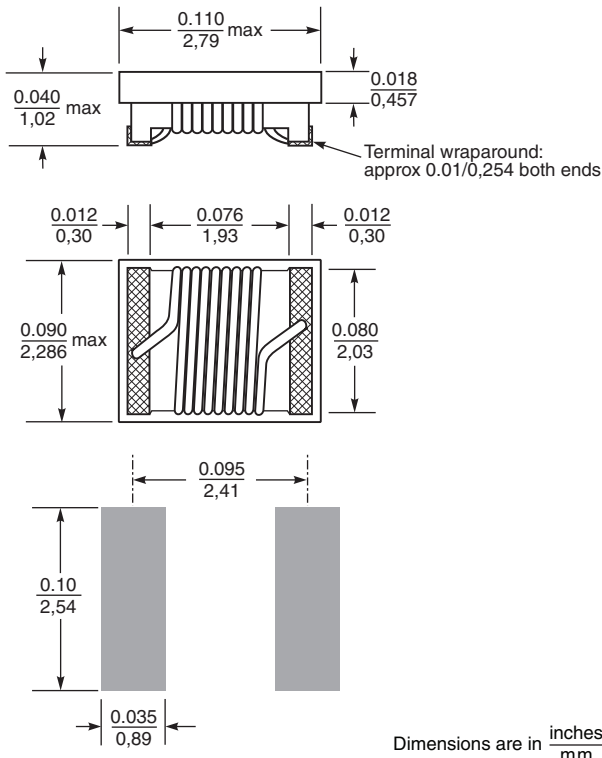
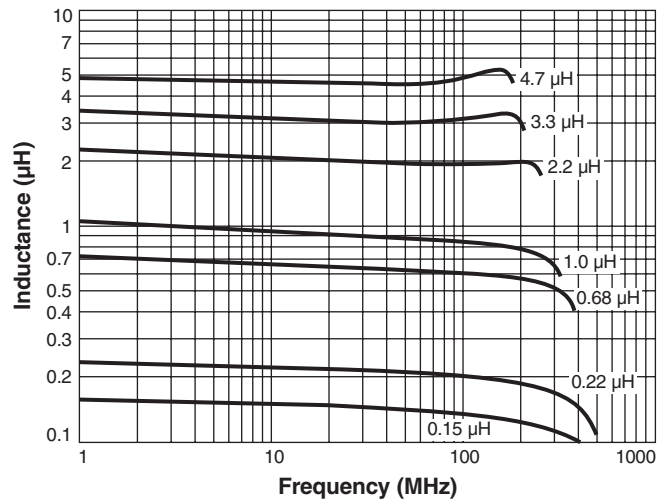

NEW!

PFL2510 Series

Typical L vs Current



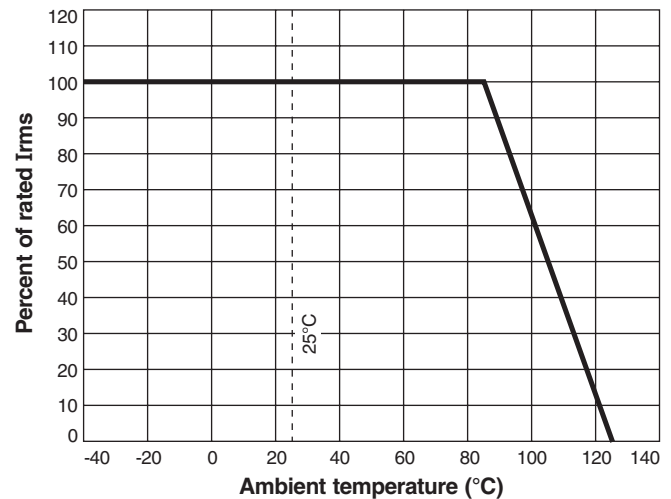
Typical L vs Frequency



**Recommended
Land Pattern**

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

Irms Derating



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