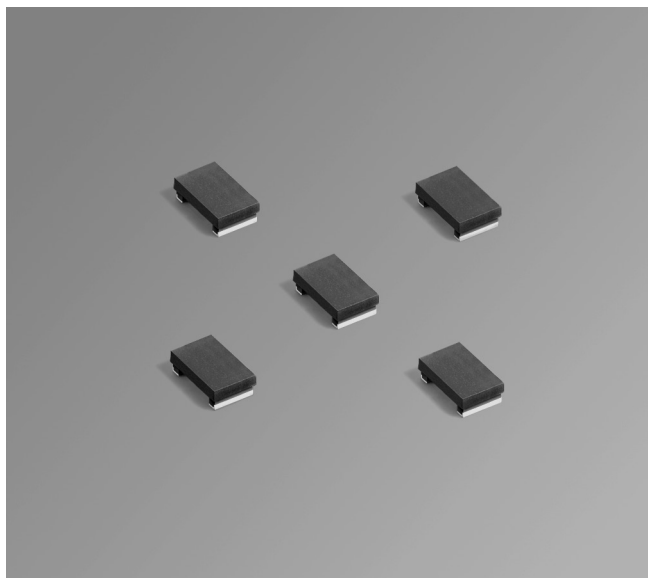


**NEW!**

# Shielded Power Inductors – PFL2512



- Low cost, low profile 1008 size power inductor
- Provides current handling of much larger inductors; up to 3.5 A

**Designer's Kit C444** contains 5 of each PFL2512 and PFL2510 value

**Core material** Composite

**Environmental** RoHS compliant, halogen free

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

**Weight** 21.2 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, 1.32 mm pocket depth

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

| Part number <sup>1</sup> | Inductance <sup>2</sup><br>±20% (µH) | DCR (mOhms) <sup>3</sup> |     | SRF typ <sup>4</sup><br>(MHz) | Isat (mA) <sup>5</sup> |          |          | Irms (mA) <sup>6</sup> |           |
|--------------------------|--------------------------------------|--------------------------|-----|-------------------------------|------------------------|----------|----------|------------------------|-----------|
|                          |                                      | typ                      | max |                               | 10% drop               | 20% drop | 30% drop | 20°C rise              | 40°C rise |
| PFL2512-681ME_           | 0.68                                 | 64                       | 80  | 550                           | 2100                   | 3100     | 3500     | 1700                   | 2200      |
| PFL2512-102ME_           | 1.0                                  | 80                       | 92  | 375                           | 1600                   | 2600     | 2900     | 1300                   | 1700      |
| PFL2512-152ME_           | 1.5                                  | 160                      | 185 | 300                           | 1400                   | 1900     | 2000     | 900                    | 1200      |
| PFL2512-222ME_           | 2.2                                  | 240                      | 270 | 225                           | 870                    | 1400     | 1700     | 760                    | 1000      |
| PFL2512-332ME_           | 3.3                                  | 480                      | 540 | 200                           | 850                    | 1200     | 1400     | 600                    | 780       |
| PFL2512-472ME_           | 4.7                                  | 770                      | 850 | 185                           | 830                    | 1100     | 1200     | 430                    | 570       |

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

PFL2512-472ME**C**

**Termination:** **E** = RoHS compliant matte tin over nickel over silver.

Special order, added cost:

**Q** = RoHS tin-silver-copper (95.5/4/0.5) or **P** = non-RoHS tin-lead (63/37).

**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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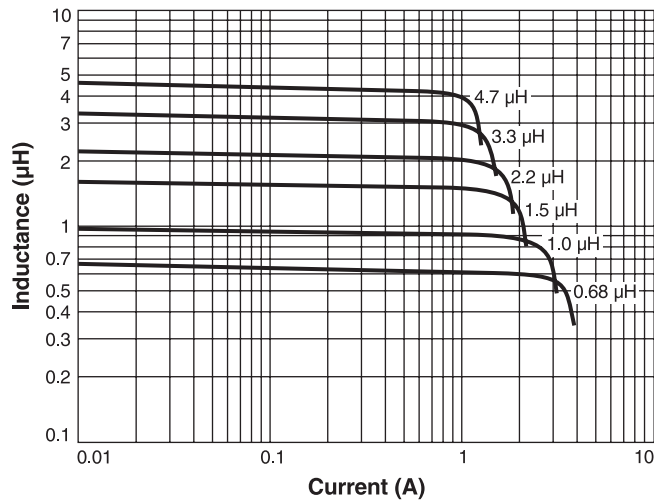
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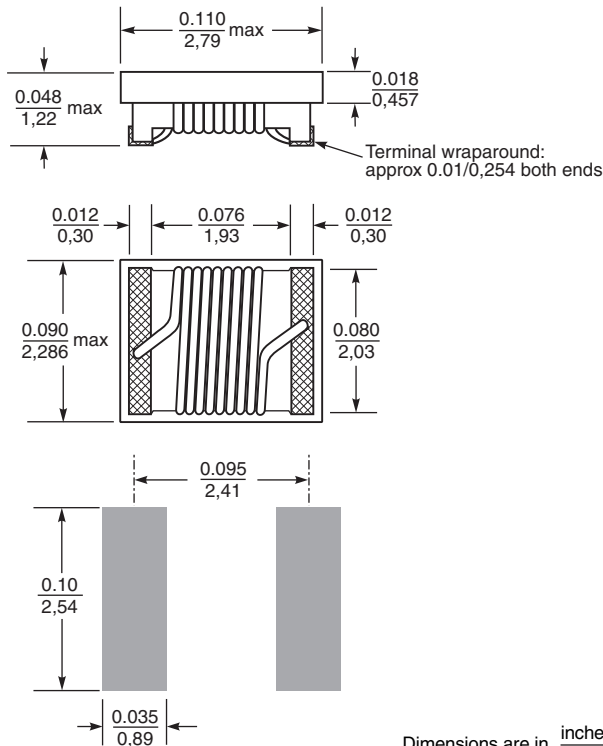
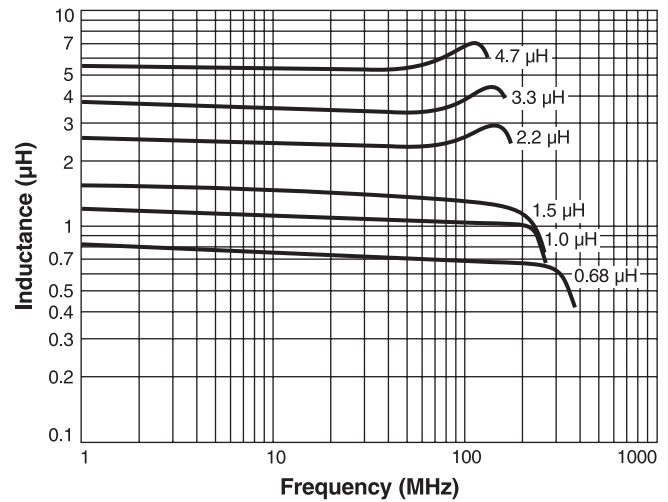
**NEW!**

# PFL2512 Series

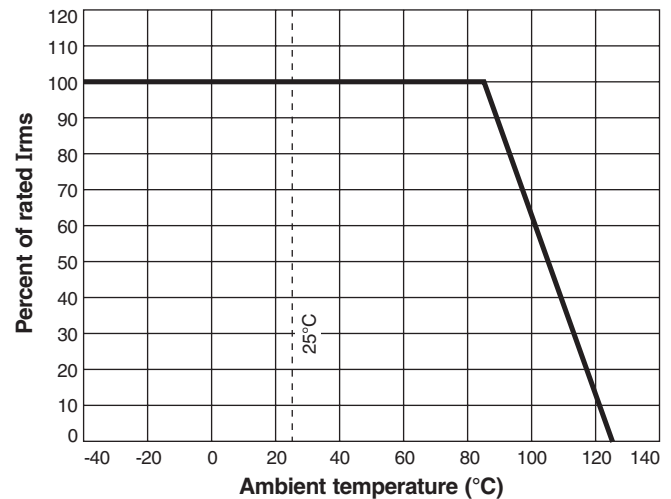
## L vs Current



## L vs Frequency

**Recommended  
Land Pattern**

## Irms Derating



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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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