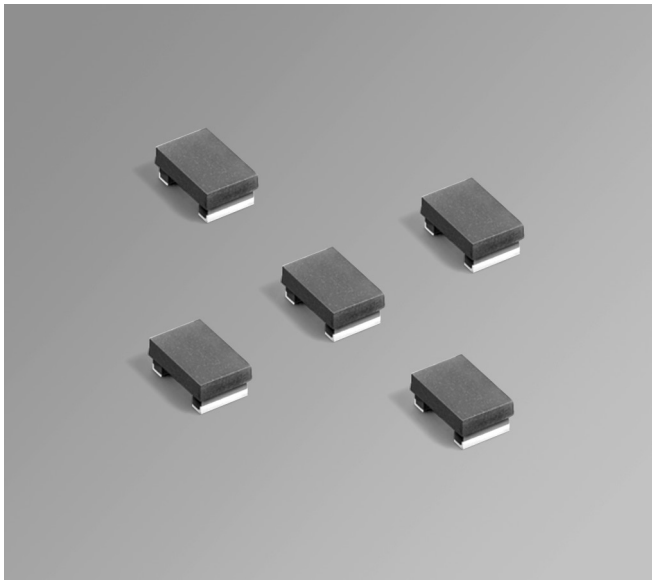
NEW!

Shielded Power Inductors – PFL3215



- Low cost, low profile 1206 size power inductor
- Provides the current handling of much larger inductors; up to 2700 mA

Core material Composite
Core and winding loss See www.coilcraft.com/coreloss
Environmental RoHS compliant, halogen free
Terminations RoHS compliant matte tin over nickel over silver-platinum-glass frit. Other terminations available at additional cost.
Weight 31 – 39 mg
Ambient temperature –40°C to +85°C with (40°C rise) Irms current.
Maximum part temperature +125°C (ambient + temp rise). Derating.
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: 12 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.65 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number[1]	Inductance[2] ±20% (µH)	DCR (mOhms)[3] typ	DCR (mOhms)[3] max	SRF typ[4] (MHz)	Isat (mA)[5] 10% drop	Isat (mA)[5] 20% drop	Isat (mA)[5] 30% drop	Irms (mA)[6] 20°C rise	Irms (mA)[6] 40°C rise
PFL3215-681ME_	0.68	28	33	450	2100	2500	2700	1500	2100
PFL3215-102ME_	1.0	30	38	375	1800	2100	2300	1400	1900
PFL3215-222ME_	2.2	114	130	250	950	1200	1400	1100	1400
PFL3215-332ME_	3.3	175	195	190	730	920	1100	820	1100
PFL3215-472ME_	4.7	332	372	170	640	810	900	520	720
PFL3215-682ME_	6.8	640	720	155	600	700	750	370	500
PFL3215-103ME_	10	1290	1340	125	500	550	600	300	390
PFL3215-333ME_	33	1700	1920	13.5	290	340	360	270	360

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

PFL3215-103MEC

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 at 25°C that causes the specified inductance drop from its value without current. Click for temperature derating information.
6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

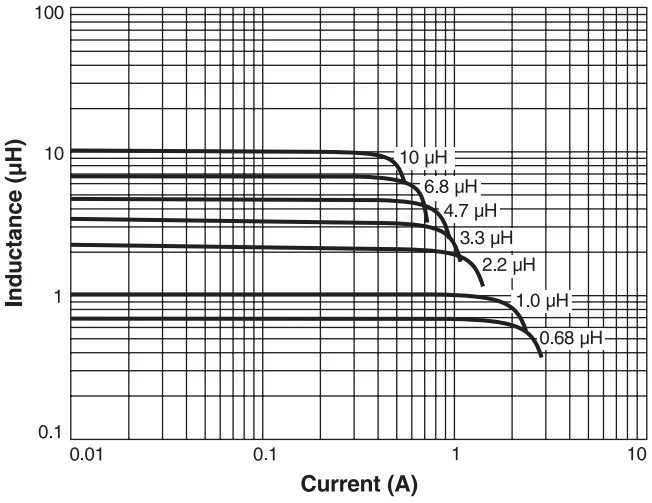
Coilcraft®
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

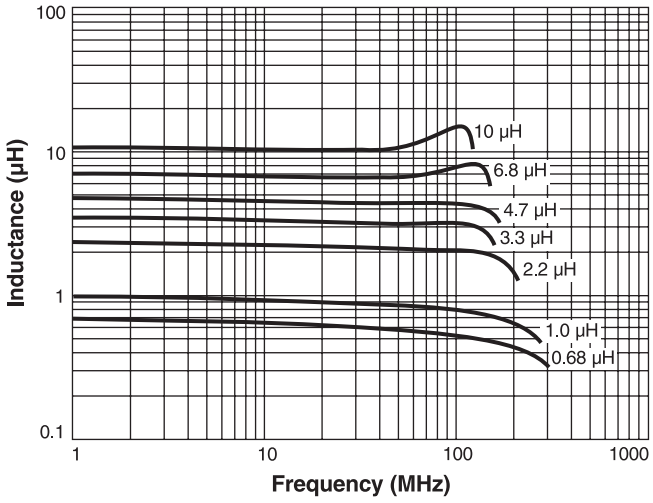
NEW!

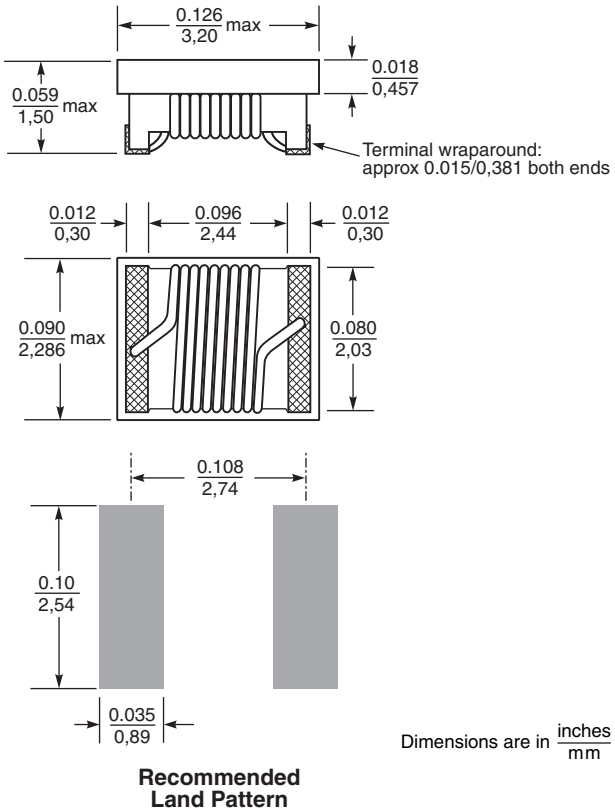
PFL3215 Shielded Power Inductors

L vs Current



L vs Frequency





Dimensions are in inches / mm

Recommended Land Pattern

Coilcraft®
www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 895-2 Revised 09/13/15