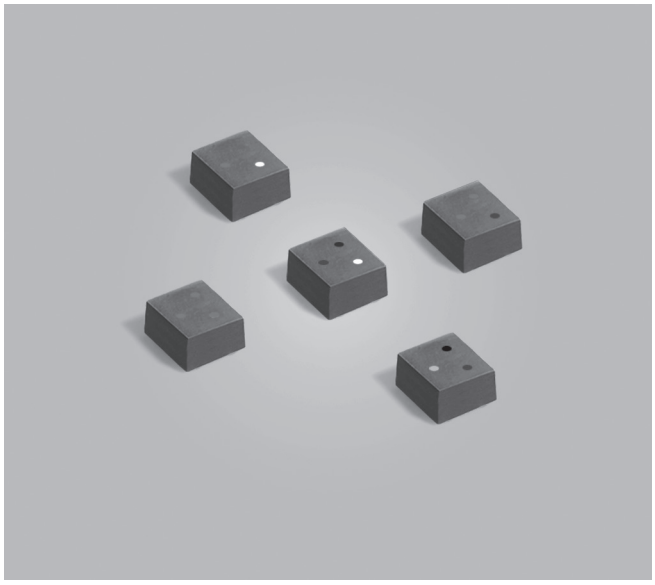
NEW!

Shielded Power Inductors – EPL3015



- Low profile shielded power inductors, 3 × 3 × 1.5 mm
- Extremely low DCR and high SRF ratings
- Isat ratings up to 2.4 A
- More values will be available soon

Designer's Kit C405 contains 5 each of all values

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over tin over nickel over silver. Other terminations available at additional cost.

Weight 45 – 51 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, 0.2 mm thick, 4 mm pocket spacing, 1.65 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number[1]	Inductance[2] ±20% (µH)	DCR (Ohms)[3] nom	DCR (Ohms)[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
EPL3015-901ML_	0.90	0.048	0.055	130	1.20	1.90	2.40	1.85	2.45
EPL3015-122ML_	1.2	0.054	0.062	105	1.00	1.60	2.05	1.80	2.40
EPL3015-152ML_	1.5	0.062	0.072	100	0.90	1.40	1.90	1.55	2.05
EPL3015-222ML_	2.2	0.082	0.094	75	0.75	1.20	1.60	1.50	2.00
EPL3015-332ML_	3.3	0.108	0.124	55	0.65	1.10	1.40	1.20	1.70
EPL3015-472ML_	4.7	0.145	0.167	50	0.55	0.90	1.20	1.00	1.40
EPL3015-682ML_	6.8	0.194	0.223	38	0.45	0.75	1.00	0.90	1.20
EPL3015-103ML_	10	0.301	0.346	32	0.35	0.59	0.81	0.76	1.00
EPL3015-153ML_	15	0.435	0.500	26	0.24	0.43	0.62	0.61	0.82
EPL3015-223ML_	22	0.576	0.662	20	0.21	0.36	0.51	0.56	0.74
EPL3015-333ML_	33	0.860	0.989	15.5	0.19	0.32	0.45	0.44	0.59

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

EPL3015-333MLC

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 100 kHz, 0.1 Vrms, 0 Adc.
3. DCR measured on a micro-ohmmeter.
4. SRF measured using Agilent/HP 4395A network analyzer 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.

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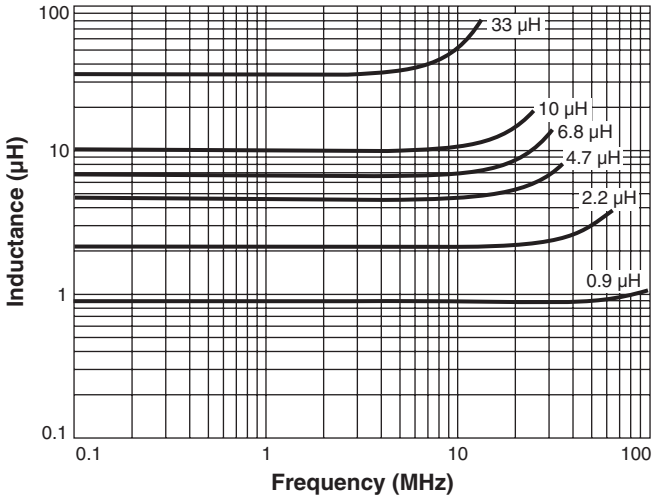
Document 634-1 Revised 09/17/09

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Please check our web site for latest information.

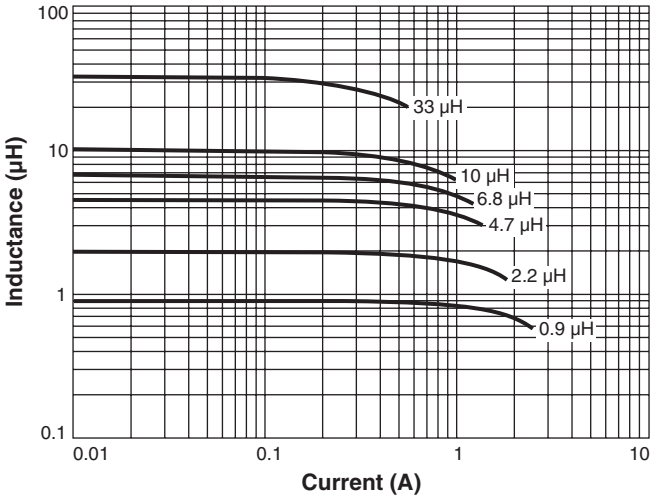
NEW!

Shielded Power Inductors – EPL3015 Series

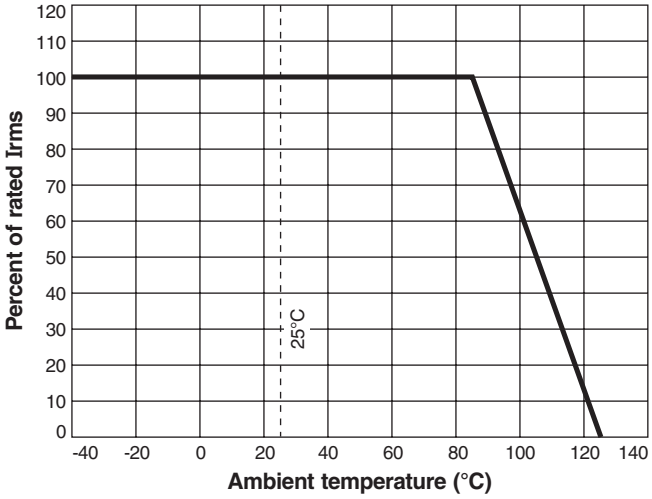
Typical L vs Frequency

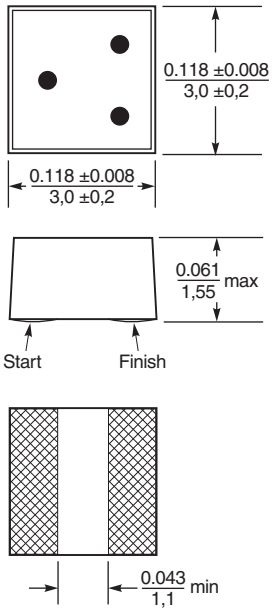


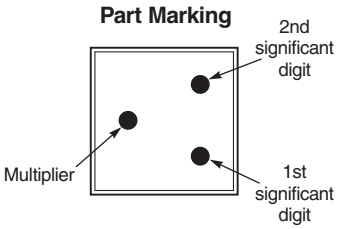
Typical L vs Current

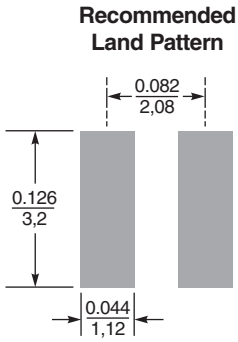


Current Derating









Dimensions are in inches / mm

Part Marking (Parts manufactured prior to Sept. 15, 2009 may not be marked.)

Part number	Value	1st digit	2nd digit	Multiplier
EPL3015-901	0.90 µH	White	Black	Brown
EPL3015-122	1.2 µH	Brown	Red	Red
EPL3015-152	1.5 µH	Brown	Green	Red
EPL3015-222	2.2 µH	Red	Red	Red
EPL3015-332	3.3 µH	Orange	Orange	Red
EPL3015-472	4.7 µH	Yellow	Violet	Red
EPL3015-682	6.8 µH	Blue	Gray	Red
EPL3015-103	10 µH	Brown	Black	Orange
EPL3015-153	15 µH	Brown	Green	Orange
EPL3015-223	22 µH	Red	Red	Orange
EPL3015-333	33 µH	Orange	Orange	Orange

Note: All marked parts have three dots. Black dot, used only on -901 and -103 as second significant digit, may be very difficult to see.

Small surface blemishes are not unusual and do not adversely affect performance. Wire may be visible inside the voids.

Acceptable void sizes:
Top: 0.01 in / 0,254 mm × 0.01 in / 0,254 mm
Sides: 0.02 in / 0,5 mm × 0.047 in / 1,2 mm

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