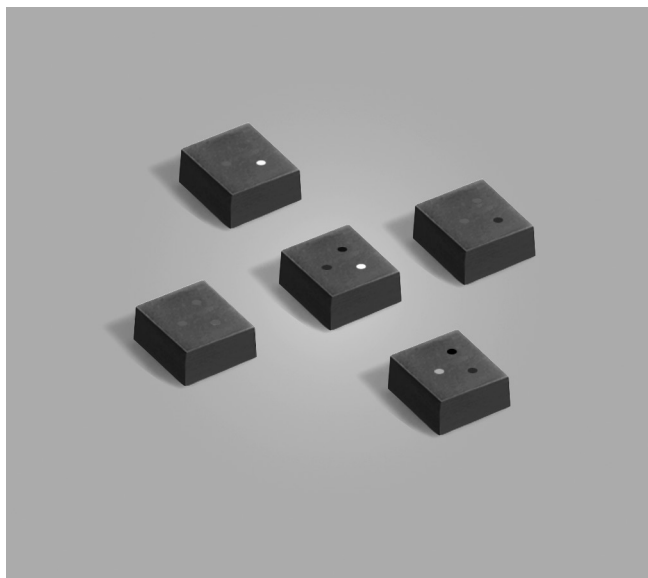


NEW!

Shielded Power Inductors – EPL3314



- Small footprint, very low profile shielded power inductor
- Extremely low DCR
- Isat ratings as high as 2.3A

Core material Ferrite

Environmental RoHS compliant, halogen free

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

Weight 53 – 60 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)

Mean Time Between Failures (MTBF) 26,315,789 hours

Packaging 2000/7" reel; 7500/13" reel Plastic tape: 12 mm wide, 0.20 mm thick, 8 mm pocket spacing, 1.55 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² ±20% (μH)	DCR (Ohms) ³		SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
EPL3314-102ME_	1.0	0.052	0.060	125	1.1	1.8	2.3	1.9	2.5
EPL3314-222ME_	2.2	0.082	0.094	80	0.70	1.2	1.6	1.5	2.0
EPL3314-332ME_	3.3	0.116	0.133	60	0.60	1.0	1.4	1.3	1.7
EPL3314-472ME_	4.7	0.139	0.160	52	0.55	0.87	1.2	1.2	1.6
EPL3314-822ME_	8.2	0.252	0.290	37	0.35	0.58	0.82	0.84	1.1
EPL3314-103ME_	10	0.313	0.360	35	0.32	0.56	0.77	0.78	1.0
EPL3314-153ME_	15	0.408	0.469	25	0.27	0.47	0.66	0.67	0.89
EPL3314-473ME_	47	1.087	1.246	12.5	0.16	0.24	0.35	0.40	0.53

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

EPL3314-473MEC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 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 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 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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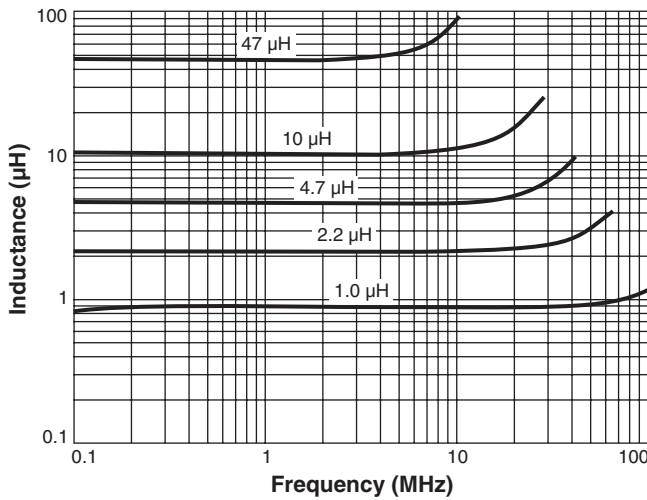
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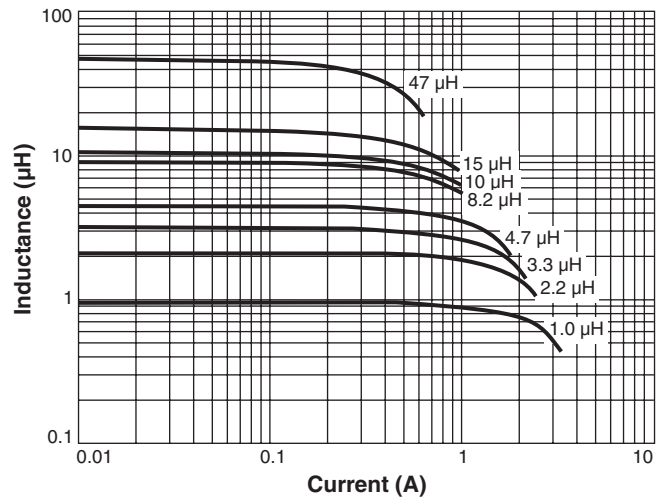
NEW!

Shielded Power Inductors – EPL3314 Series

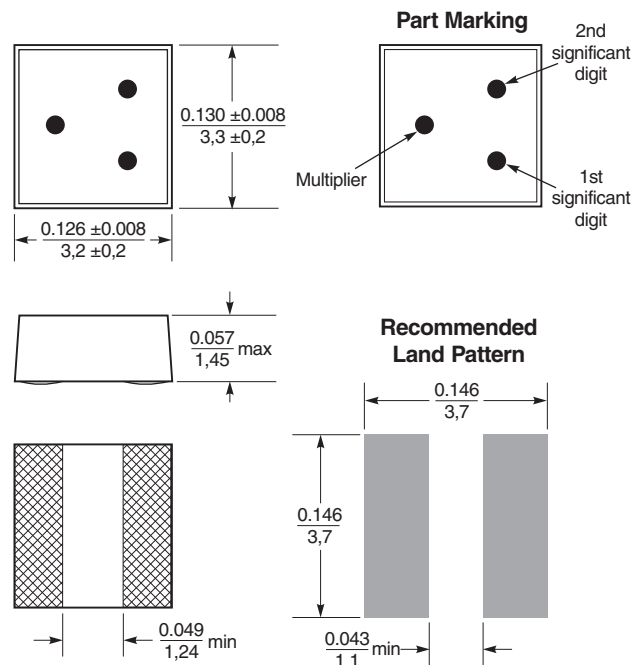
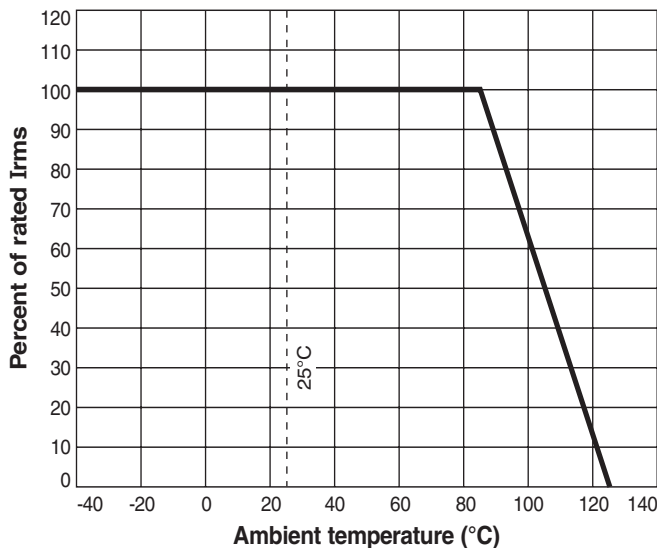
Typical L vs Frequency



Typical L vs Current



Irms Derating



Part Marking (Parts manufactured prior to Oct. 20, 2009 may not be marked.)

Part number	Value	1st digit	2nd digit	Multiplier
EPL3314-102	1.0 µH	Brown	Black	Red
EPL3314-222	2.2 µH	Red	Red	Red
EPL3314-332	3.3 µH	Orange	Orange	Red
EPL3314-472	4.7 µH	Yellow	Violet	Red
EPL3314-822	8.2 µH	Gray	Red	Red
EPL3314-103	10 µH	Brown	Black	Orange
EPL3314-153	15 µH	Brown	Green	Orange
EPL3314-473	47 µH	Yellow	Violet	Orange

Note: All marked parts have three dots. Black dot, used only on -102 and -103 as second significant digit, may be very difficult to see.

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

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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Coilcraft:

<u>EPL3314-222MEB</u>	<u>EPL3314-102MEB</u>	<u>EPL3314-822MEB</u>	<u>EPL3314-473MEB</u>	<u>EPL3314-103MEB</u>	<u>EPL3314-103MEC</u>
<u>EPL3314-332MEB</u>	<u>EPL3314-102MEC</u>	<u>EPL3314-153MEB</u>	<u>EPL3314-822MEC</u>	<u>EPL3314-332MEC</u>	<u>EPL3314-153MEC</u>
<u>EPL3314-222MEC</u>	<u>EPL3314-472MEC</u>	<u>EPL3314-473MEC</u>	<u>EPL3314-472MEB</u>		