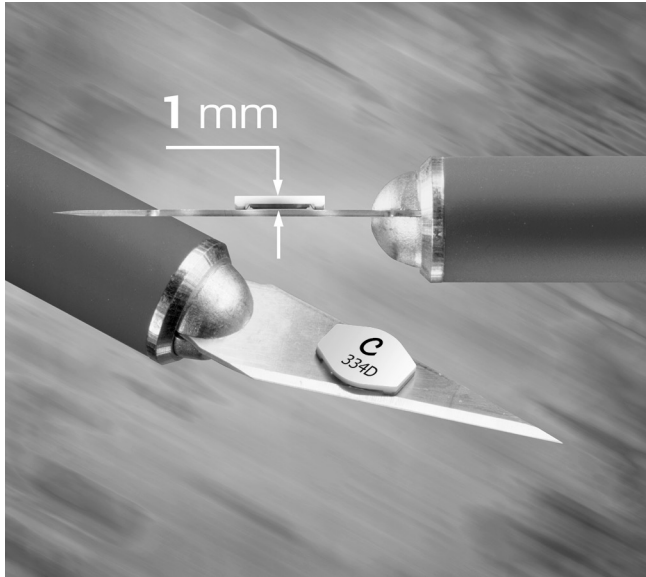


# SMT Power Inductors – LPO6610



- Very low profile - only 1.0 mm high!
- Handles current up to 1.7 Amps rms

**Designer's Kit C367** contains 3 each of all values

**Core material** Ferrite

**Core and winding loss** See [www.coilcraft.com/coreloss](http://www.coilcraft.com/coreloss)

**Terminations** RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.

**Weight** 91.0 – 95.0 mg

**Ambient temperature** –40°C to +85°C with Irms current

**Maximum part temperature** +125°C (ambient + temp rise)

**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** 1000/7" reel Plastic tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 1.2 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>	L <sup>2</sup> ±20% (µH)	DCR max (Ohms)	SRF typ (MHz)	Isat <sup>3</sup> (A)	Irms <sup>4</sup> (A)
LPO6610-122ML_	1.2	0.08	190	2.1	1.7
LPO6610-152ML_	1.5	0.10	140	1.9	1.5
LPO6610-222ML_	2.2	0.12	115	1.6	1.4
LPO6610-332ML_	3.3	0.16	90	1.3	1.2
LPO6610-472ML_	4.7	0.20	88	1.1	1.1
LPO6610-682ML_	6.8	0.32	66	0.90	0.85
LPO6610-103ML_	10	0.41	55	0.80	0.75
LPO6610-153ML_	15	0.55	42	0.65	0.60
LPO6610-223ML_	22	0.85	38	0.50	0.52
LPO6610-333ML_	33	1.3	29	0.40	0.42
LPO6610-473ML_	47	1.8	22	0.35	0.36
LPO6610-683ML_	68	2.5	18	0.30	0.30
LPO6610-104ML_	100	3.5	14	0.25	0.26
LPO6610-154ML_	150	5.0	12	0.18	0.21
LPO6610-224ML_	220	7.0	10	0.16	0.18
LPO6610-334ML_	330	15.0	8	0.13	0.13

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

**LPO6610-334MLC**

**Termination:** L = RoHS compliant silver-palladium-platinum-glass frit. Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

**Packaging:** C = 7" machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.

3. DC current at which the inductance drops 10% (typ) from its value without current.

4. Current that causes a 40°C temperature rise from 25°C ambient.

5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

**SPICE models** ON OUR WEB SITE



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**Singapore** + 65-6484 8412 [sales@coilcraft.com.sg](mailto:sales@coilcraft.com.sg)

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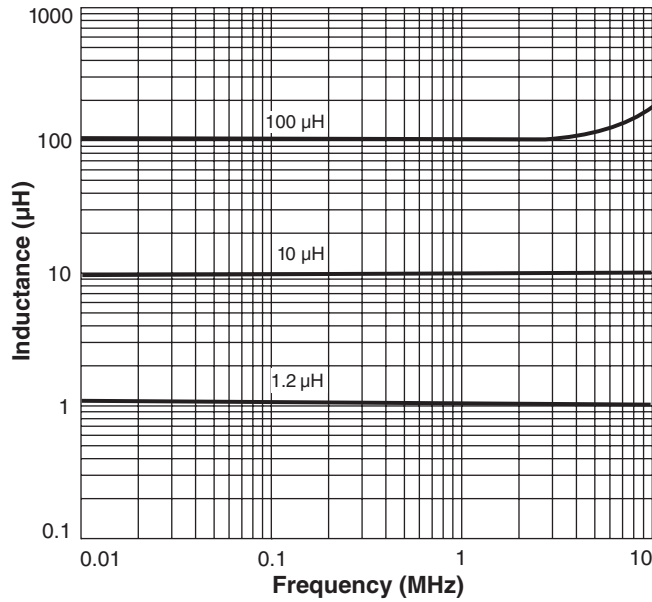
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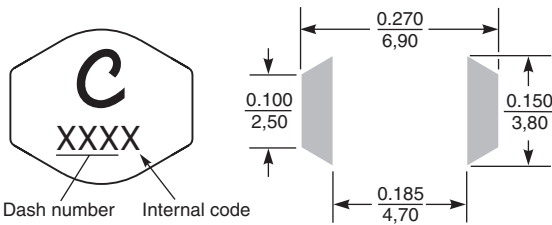
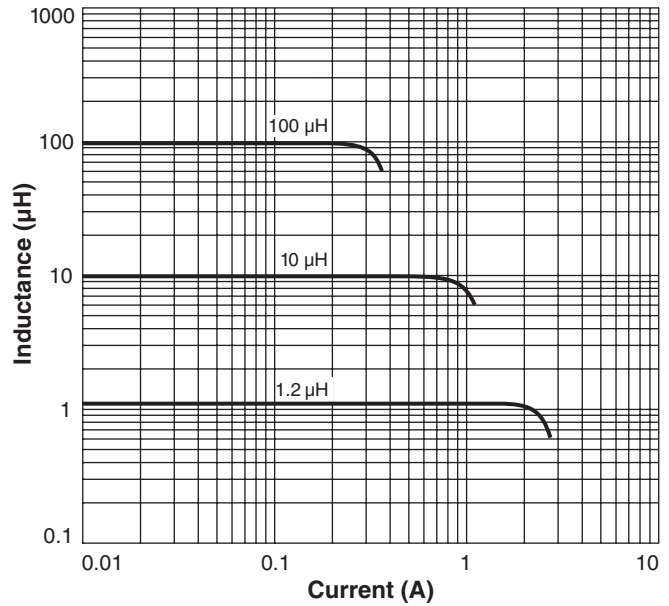


# SMT Power Inductors - LPO6610 Series

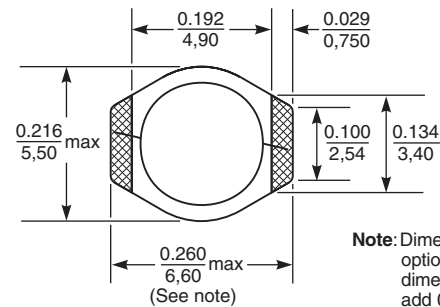
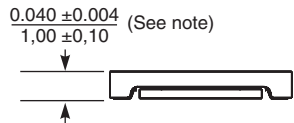
## Typical L vs Frequency



## Typical L vs Current



**Recommended Land Pattern**



**Note:** Dimensions are before optional solder application. For dimensions including solder, add 0.005 in / 0.127 mm.

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



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