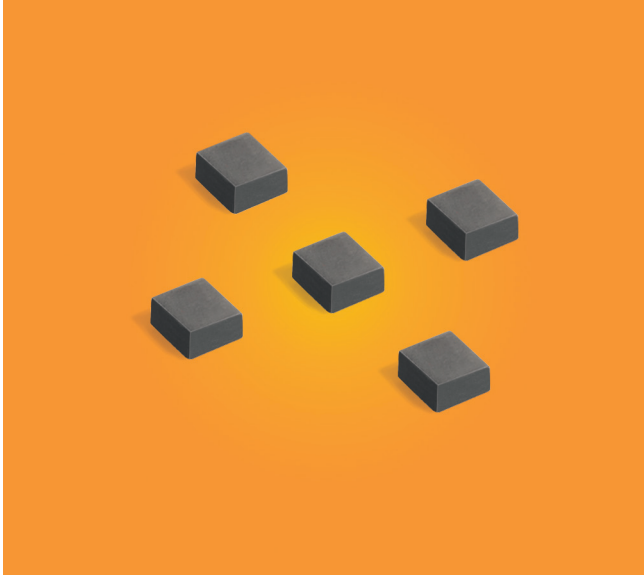


High Reliability Power Inductors ML410PZA



- High temperature materials allow operation in ambient temperatures up to 155°C
- Low profile, ultra-miniature, shielded power inductor
- Soft saturation makes them ideal for VRM/VRD applications.

Terminations Tin-silver-copper over tin over nickel over silver.

Core material Composite

Weight 53 mg

Ambient temperature -55°C to +105°C with Irms current, +105°C to +155°C with derated current

Storage temperature Component: -55°C to +155°C.
T&R packaging: -55°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)

Enhanced crush-resistant packaging 2000/7" reel; 7500/13" reel
Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.25 mm pocket depth

Part number ¹	Inductance ² ±20% (µH)	DCR (Ohms) ³		SRF (MHz) ⁴		Isat (A) ⁵			Irms (A) ⁶	
		typ	max	min	typ	10% drop	20% drop	30% drop	20°C rise	40°C rise
ML410PZA221MLZ	0.22	14	19	272	340	2.5	3.5	4.1	2.6	3.5
ML410PZA361MLZ	0.36	19	23	168	210	2.3	3.1	3.5	2.2	3.0
ML410PZA601MLZ	0.60	23	29	133	167	1.9	2.6	3.0	2.1	2.8
ML410PZA102MLZ	1.0	35	42	92.0	115	1.6	2.2	2.5	1.9	2.6
ML410PZA152MLZ	1.5	60	72	75.5	94.4	1.3	1.8	2.2	1.6	2.2
ML410PZA222MLZ	2.2	81	97	58.5	73.2	1.0	1.3	1.6	1.4	1.9
ML410PZA332MLZ	3.3	106	127	49.3	61.6	0.87	1.2	1.4	1.2	1.6
ML410PZA472MLZ	4.7	143	171	42.1	52.6	0.72	1.0	1.2	1.0	1.4

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

ML410PZA472MLZ

Testing: Z = COTS
H = Screening per Coilcraft CP-SA-10001
N = Screening per Coilcraft CP-SA-10004

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 or equivalent.

5. Typical dc current at which the inductance drops the specified amount from its value without current.

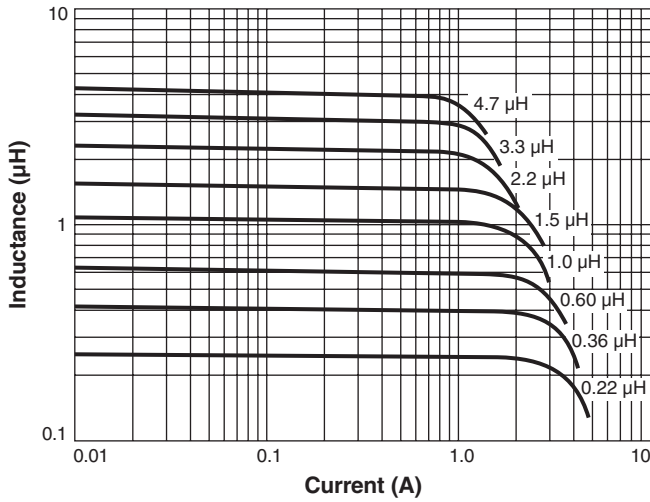
6. Typical current that causes the specified temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

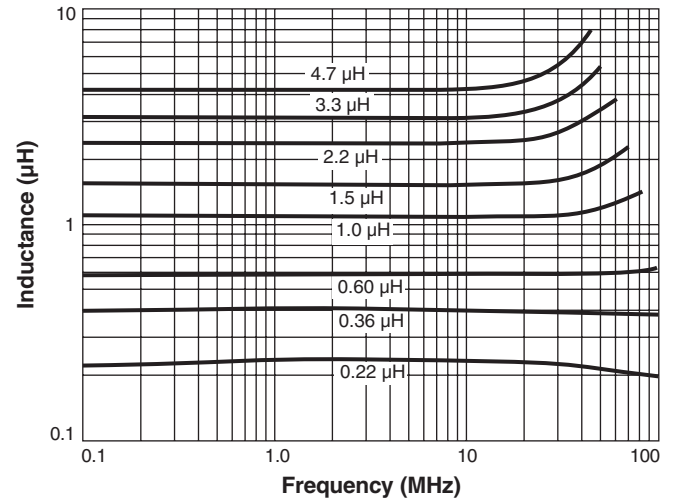
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

ML410PZA Series

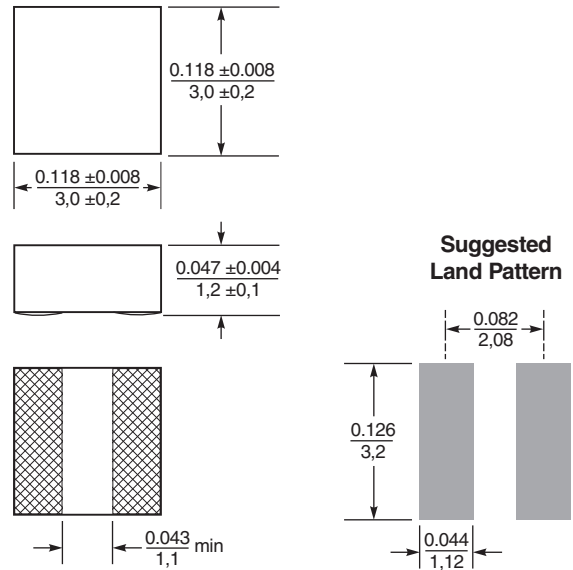
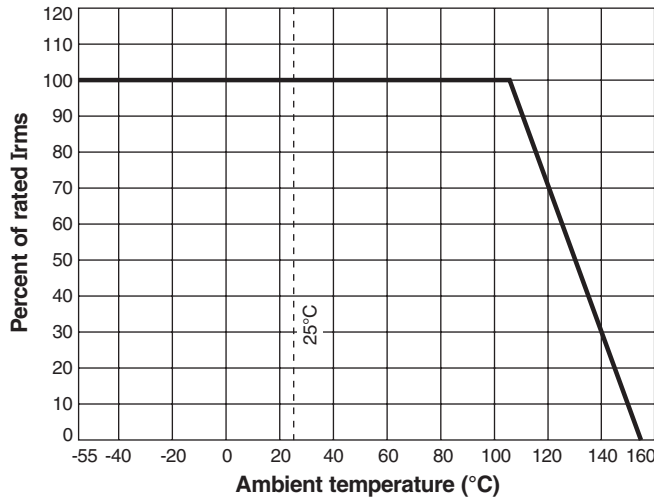
L vs Current



L vs Frequency



Irms Derating



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