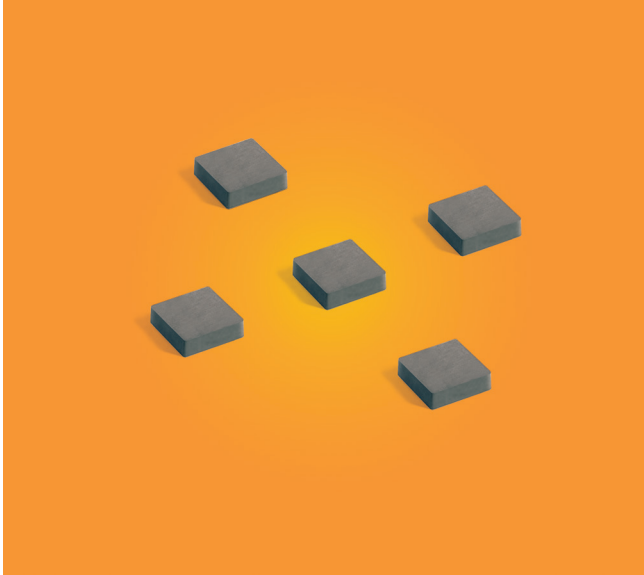


High Reliability Power Inductors ML390PZA



- 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 44 mg

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

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: -55°C to +155°C.

Tape and reel 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

Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.14 mm pocket depth

Part number ¹	Inductance ² ±20% (µH)	DCR (mOhms) 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
ML390PZA601MLZ	0.60	30	33	144	180	1.8	2.4	2.7	1.8	2.5
ML390PZA102MLZ	1.0	43	49	102	128	1.5	2.1	2.4	1.6	2.3
ML390PZA152MLZ	1.5	71	80	77	97	1.2	1.6	1.9	1.4	1.9
ML390PZA222MLZ	2.2	111	122	62	78	0.94	1.2	1.5	1.0	1.3
ML390PZA332MLZ	3.3	154	166	51	64	0.86	1.1	1.3	0.88	1.2
ML390PZA472MLZ	4.7	217	230	45	57	0.71	0.97	1.1	0.84	1.1

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

ML390PZA222MLZ

Testing:

Z = Unscreened

H = Group A screening per Coilcraft CP-SA-10001

All screening performed to the document's latest revision

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.

3. DCR measured on a micro-ohmmeter.

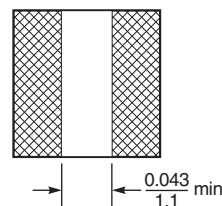
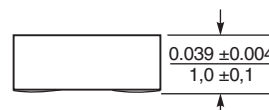
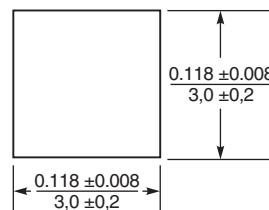
4. SRF measured using Agilent/HP 4395A or equivalent.

5. DC current at 25°C that causes the specified inductance drop from its value without current.

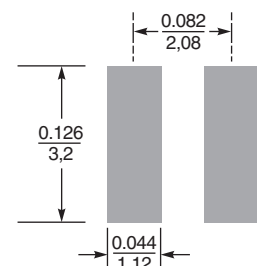
6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

7. Electrical specifications at 25°C.

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



Suggested Land Pattern



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

Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

1102 Silver Lake Road
Cary, IL 60013
Phone 800-981-0363

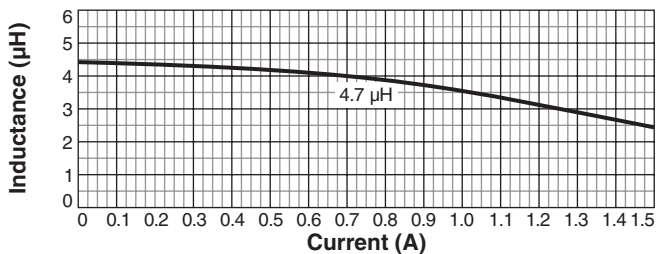
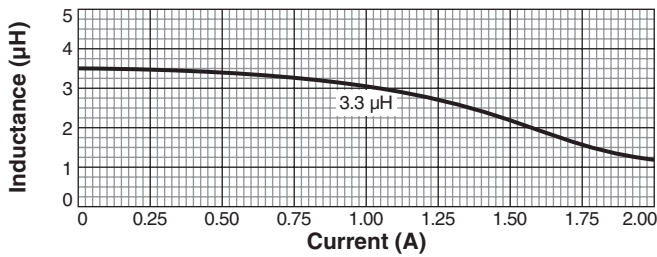
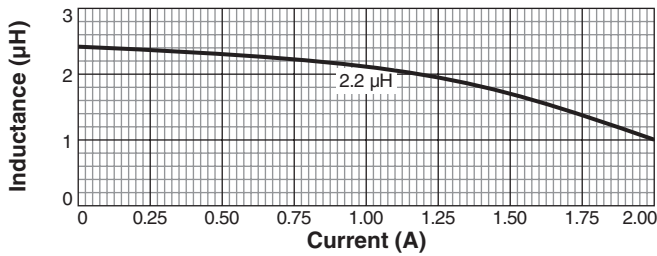
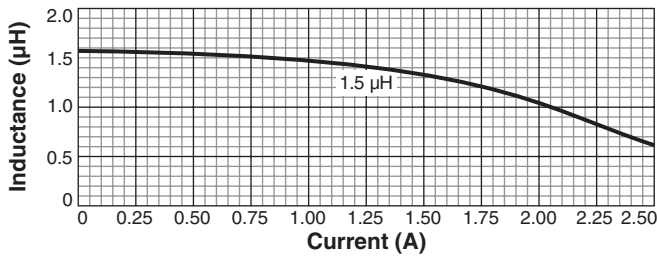
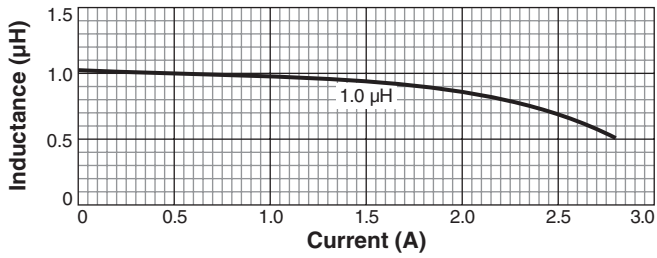
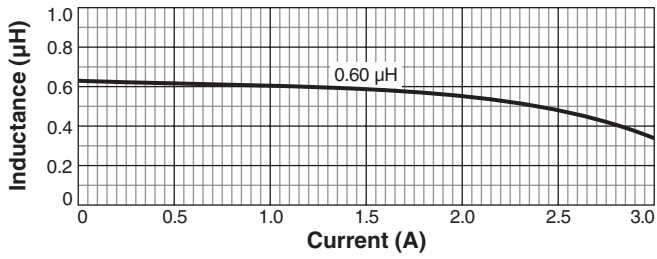
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Email cps@coilcraft.com
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Document ML727-1 Revised 05/22/17

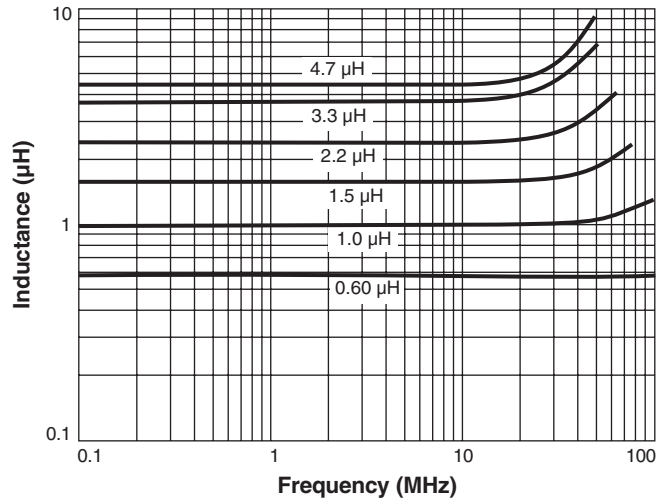
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ML390PZA Series

L vs Current



L vs Frequency



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