High Reliability Chip Inductors ML336RAM

- Higher inductance values than ceramic 0805 inductors
- Heavy guage wire for low DCR
- Ferrite construction for high current handling

This robust version of Coilcraft's standard 0805AF series features high temperature materials that allow operation in ambient temperatures up to 155°C.

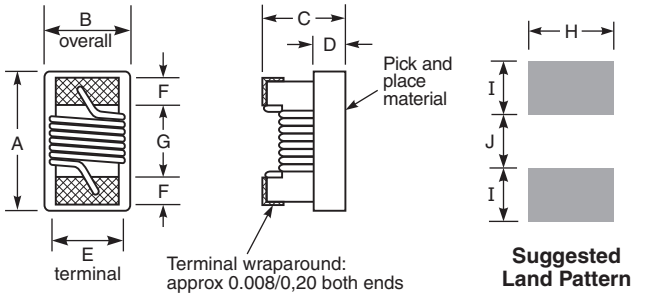
Part number[1]	Inductance[2] ±5% (µH)	Q min[3]	Impedance typ (Ohms)	SRF min[4] (MHz)	DCR max[5] (Ohms)	Imax (mA)	Color code
ML336RAM111JRZ	0.11 @ 7.9 MHz	14 @ 7.9 MHz	370 @ 500MHz	1000	0.05	700	Brown
ML336RAM681JRZ	0.68 @ 7.9 MHz	15 @ 7.9 MHz	430 @ 100 MHz	340	0.30	410	Orange
ML336RAM102JRZ	1.0 @ 7.9 MHz	13 @ 7.9 MHz	670 @ 100 MHz	280	0.39	360	Yellow
ML336RAM122JRZ	1.2 @ 7.9 MHz	15 @ 7.9 MHz	860 @ 100 MHz	300	0.64	260	Brown
ML336RAM152JRZ	1.5 @ 7.9 MHz	16 @ 7.9 MHz	1000 @ 100 MHz	225	0.74	250	Green
ML336RAM182JRZ	1.8 @ 7.9 MHz	16 @ 7.9 MHz	1360 @ 100 MHz	240	0.98	210	Blue
ML336RAM222JRZ	2.2 @ 7.9 MHz	15 @ 7.9 MHz	840 @ 50 MHz	90	0.98	190	Brown
ML336RAM272JRZ	2.7 @ 7.9 MHz	15 @ 7.9 MHz	1050 @ 50MHz	80	1.16	190	Violet
ML336RAM332JRZ	3.3 @ 7.9 MHz	15 @ 7.9 MHz	1670 @ 50 MHz	65	1.20	190	Gray
ML336RAM472JRZ	4.7 @ 7.9 MHz	14 @ 7.9 MHz	950 @ 25 MHz	40	1.50	170	Black
ML336RAM682JRZ	6.8 @ 7.9 MHz	14 @ 7.9 MHz	450 @ 10MHz	28	1.90	150	Brown
ML336RAM103JRZ	10 @ 2.5 MHz	14 @ 2.5 MHz	740 @ 10 MHz	18	2.20	130	Red
ML336RAM153JRZ	15 @ 2.5 MHz	13 @ 2.5 MHz	1300 @ 10MHz	15	4.25	90	Yellow
ML336RAM223JRZ	22 @ 2.5 MHz	13 @ 2.5 MHz	1620 @ 10 MHz	15	6.70	75	Green

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

   ML336RAM103JRZ

   Testing: **Z** = COTS
   H = Screening per Coilcraft CP-SA-10001
   N = Screening per Coilcraft CP-SA-10003
2. Inductance measured at 0.1 Vrms, using Coilcraft SMD-A fixture in Agilent/HP 4286A impedance analyzer or equivalent with Coilcraft-provided correlation pieces.
3. Q measured on Agilent/HP 4291A with Agilent/HP 16197A test fixture or equivalents.
4. SRF measured using Agilent/HP 8753ES network analyzer or equivalent with Coilcraft CCF1297 test fixture.
5. DCR measured on a Keithley 580 Micro-ohmmeter or equivalent with a Coilcraft CCF858 test fixture.
6. Electrical specifications at 25°C.

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



A max	B max	C max	D ref	E	F	G	H	I	J	
0.090	0.068	0.060	0.020	0.050	0.016	0.040	0.070	0.040	0.030	inches
2,29	1,73	1,52	0,51	1,27	0,41	1,02	1,78	1,02	0,76	mm

Note: Dimensions are before solder application. For maximum overall dimensions including solder, add 0.0025 in / 0,064 mm to **B** and 0.006 in / 0,15 mm to **A** and **C**.

Core material Ferrite

Terminations Matte tin over nickel silver-platinum-glass frit

Weight 16.7 – 18.0 mg

Ambient temperature –55°C to +125°C with Imax current, +125°C to +155°C with derated current

Storage temperature Component: –55°C to +155°C. 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, 1.6 mm pocket depth

Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

Specifications subject to change without notice.
Please check our website for latest information.

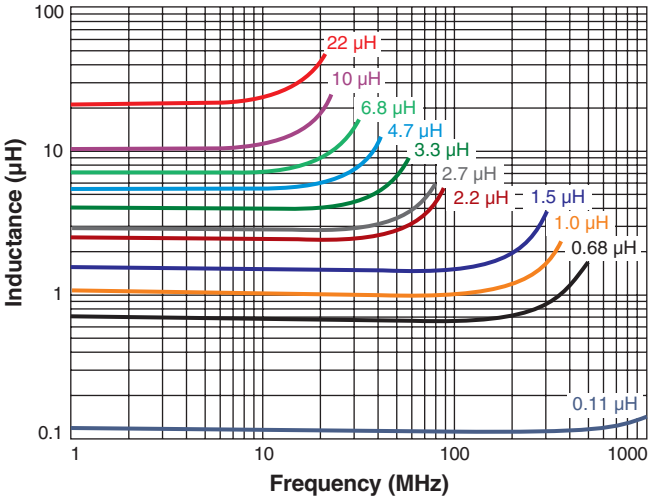
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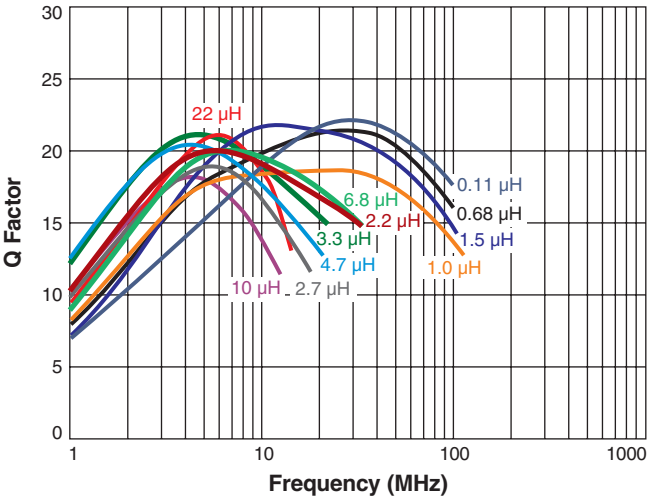
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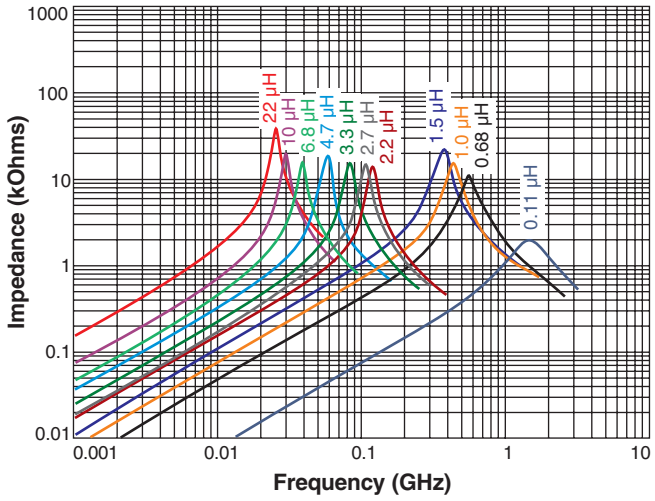
L vs Frequency



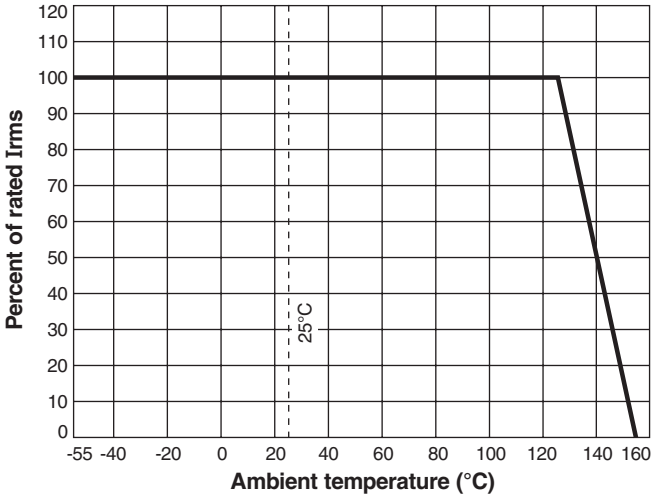
Q vs Frequency



Impedance vs Frequency



Imax Derating



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Please check our website for latest information. Document ML781-2 Revised 09/01/11

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