NEW!

Chip Inductors for Critical Applications AR336RAM

- High temperature materials allow operation in ambient temperatures up to 140°C.
- Passes NASA low outgassing specifications
- Standard tin-lead (Sn-Pb) terminations ensure the best possible board adhesion. Note: Nickel barrier termination (tin-lead over tin over nickel over silver-platinum-glass frit, termination code P) is recommended for hand soldering applications.

Part number[1]	Inductance[2] ±5% (µH)	Q min[3]	Impedance typ (Ohms)	SRF min[4] (MHz)	DCR max[5] (Ohms)	Imax (mA)
AR336RAM111JPZ	0.11 @ 7.9 MHz	14 @ 7.9 MHz	370 @ 500 MHz	1000	0.05	700
AR336RAM681JPZ	0.68 @ 7.9 MHz	15 @ 7.9 MHz	430 @ 100 MHz	340	0.30	410
AR336RAM102JPZ	1.0 @ 7.9 MHz	13 @ 7.9 MHz	670 @ 100 MHz	280	0.39	360
AR336RAM122JPZ	1.2 @ 7.9 MHz	15 @ 7.9 MHz	860 @ 100 MHz	300	0.64	260
AR336RAM152JPZ	1.5 @ 7.9 MHz	16 @ 7.9 MHz	1000 @ 100 MHz	225	0.74	250
AR336RAM182JPZ	1.8 @ 7.9 MHz	16 @ 7.9 MHz	1360 @ 100 MHz	240	0.98	210
AR336RAM222JPZ	2.2 @ 7.9 MHz	15 @ 7.9 MHz	840 @ 50 MHz	90	0.98	190
AR336RAM272JPZ	2.7 @ 7.9 MHz	15 @ 7.9 MHz	1050 @ 50 MHz	80	1.16	190
AR336RAM332JPZ	3.3 @ 7.9 MHz	15 @ 7.9 MHz	1670 @ 50 MHz	65	1.20	190
AR336RAM472JPZ	4.7 @ 7.9 MHz	14 @ 7.9 MHz	950 @ 25 MHz	40	1.50	170
AR336RAM682JPZ	6.8 @ 7.9 MHz	14 @ 7.9 MHz	450 @ 10 MHz	28	1.90	150
AR336RAM103JPZ	10 @ 2.5 MHz	14 @ 2.5 MHz	740 @ 10 MHz	18	2.20	130
AR336RAM153JPZ	15 @ 2.5 MHz	13 @ 2.5 MHz	1300 @ 10 MHz	15	4.25	90
AR336RAM223JPZ	22 @ 2.5 MHz	13 @ 2.5 MHz	1620 @ 10 MHz	15	6.70	75

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

AR336RAM223JPZ

Screening:
Z = Unscreened
H = Coilcraft CP-SA-10001 Group A
1 = EEE-INST-002 (Family 3) Level 1
2 = EEE-INST-002 (Family 3) Level 2
3 = EEE-INST-002 (Family 3) Level 3
4 = MIL-STD-981 (Family 50) Class B
5 = MIL-STD-981 (Family 50) Class S
F = ESCC3201 (F4 operational life performed at 90°C)
- Screening performed to the document's latest revision.
- Lot qualification (Group B) available.
- Custom testing also available.
- Country of origin restrictions available; prefix options G or F.

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.

Core material Ferrite

Terminations Tin-lead (63/37) over tin over nickel over silver-platinum-glass frit.

Weight 16.7 – 21.7 mg

Ambient temperature –40°C to +125°C with Imax current

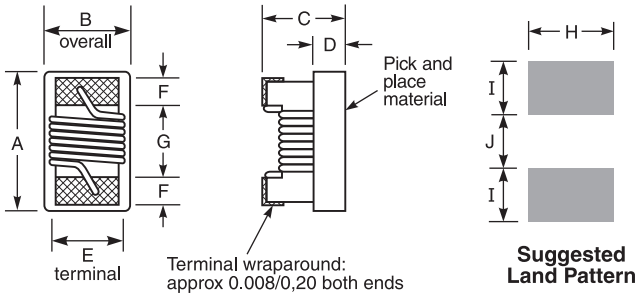
Maximum part temperature +140°C (ambient + temp rise).

Storage temperature Component: –55°C to +140°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



A max	B max	C max	D ref	E	F	G	H	I	J	
0.090	0.071	0.060	0.020	0.050	0.016	0.040	0.070	0.040	0.030	inches
2,29	1,80	1,52	0,51	1,27	0,41	1,02	1,78	1,02	0,76	mm

Note: Dimensions are before optional 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**.

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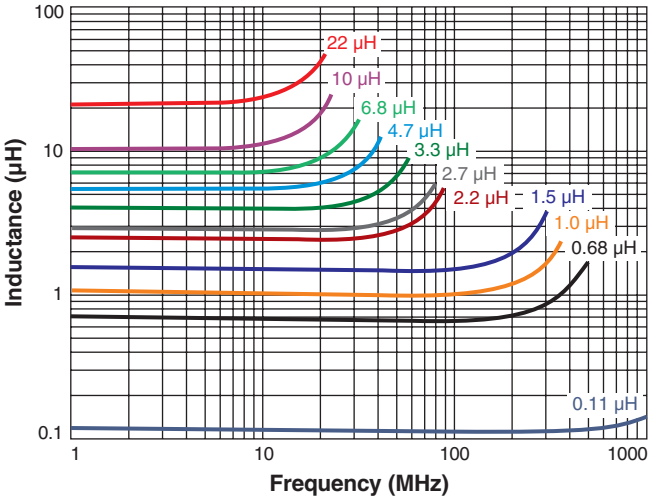
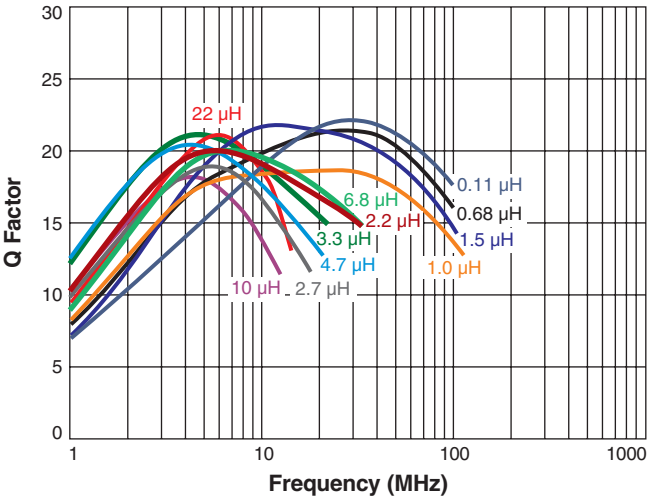
Chip Inductors for Critical Applications – AR336RAM

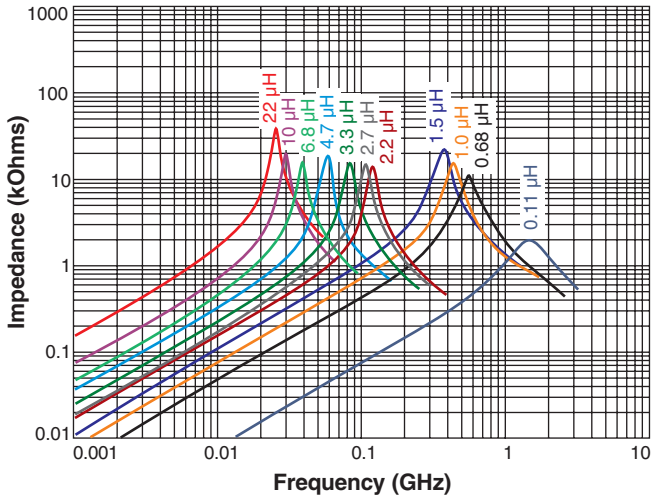
L vs Frequency



Q vs Frequency



Impedance vs Frequency



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