



Figure 1. The Physical Photo of ATIN-1050 Series

FEATURES

- Shielded construction
- Frequency range up to 1.0 MHz
- Lowest DCR/uH in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise due to composite construction
- Compliant to RoHS Directive 2002/95/EC

PART # NAMING

$$\begin{array}{ccccc} \underline{AT} & \underline{IN} & \underline{1050} & - & \underline{150} & \underline{M} \\ A & B & C & D & E \end{array}$$

A: Company Code, Analog Technologies, Inc.

B: Inductor

C: Dimensions

D: Inductance, e.g. 150 = 15.0 uH.

E: Inductance Tolerance, e.g. M = ±20%.

ELECTRICAL CHARACTERISTICS

Test Conditions: 25°C, 100 KHz, 0.1V

PART #	L (0A) (uH±20%)	I _{rms} (A)	I _{sat} (A)	DCR Typ (mΩ)	DCR Max (mΩ)	DCR /L (mΩ/ uH)
ATIN1050-R45M	0.45	36.0	29.0	0.9	1.1	2.00
ATIN1050-R56M	0.56	32.0	31.0	1.2	1.4	2.14
ATIN1050-1R0M	1.0	25.0	25.0	2.3	2.5	2.30
ATIN1050-1R2M	1.2	24.0	21.0	2.5	3.0	2.08
ATIN1050-4R7M	4.7	10.0	14.0	10.5	11.5	2.23
ATIN1050-7R0M	7.0	8.0	12.0	16.5	20.4	2.36
ATIN1050-150M	15.0	4.5	8.0	38.0	45.6	2.53
ATIN1050-220M	22.0	4.0	7.0	51.0	61.2	2.32

NOTE:

1. All test data is in reference to 25°C ambient temperature.
2. I_{rms} will cause an approximate ΔT of 40°C.
3. I_{sat} will cause the inductance value to drop approximately 20%.
4. Operating Temperature Range, -55°C ~ +125°C.
5. The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature.

MECHANICAL DIMENSIONS:

Unit: mm

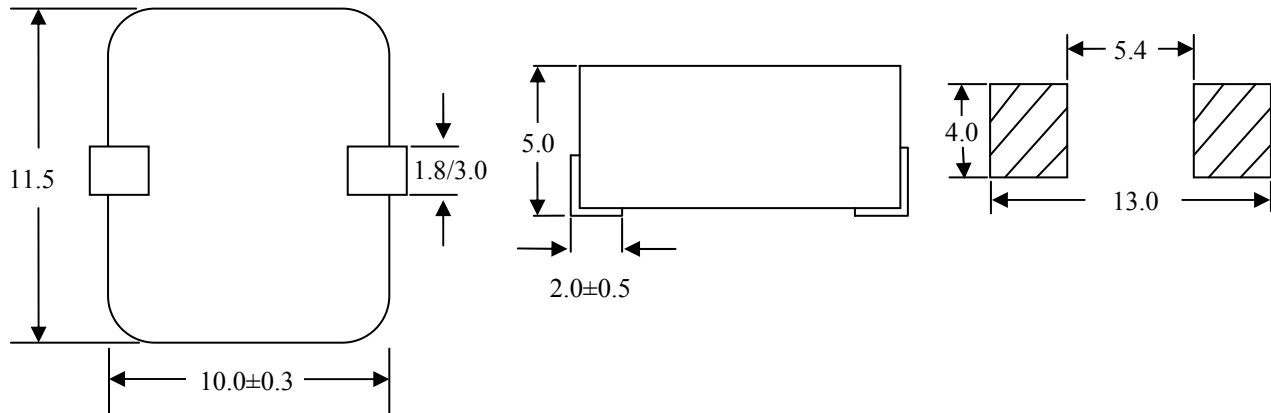


Figure 2. Mechanical Dimensions for ATIN-1050 Series Inductors

ORDERING INFORMATION

Table 3. Unit Price

The lead time is 6~8 weeks. Please contact us for more ordering information.

Part #	1 - 24	25 - 99	100 - 249	250 - 999	≥ 1000
ATIN-1050 Series	\$1.30	\$1.10	\$0.90	\$0.70	\$0.55

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