



AT2450A1306DT ANTENNA SPECIFICATION

Rev. A

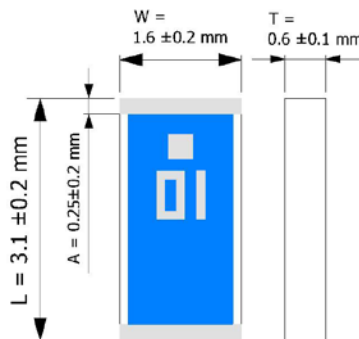
PRODUCT FEATURES

1. Surface mount ceramic antenna with a small size of 3.1 X 1.6 X 0.6 mm.
2. Highly stable under temperature and humidity changes.
3. Superior performance in a compact size, RoHS compliant.

RF CHARACTERISTICS

PN AT2450A1306DT	Specification
Working Frequency Range	2.4-2.48GHz
Gain	2.0 dBi(Typical)
VSWR	2.1 max
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Rated Power	1W max
Operating Temperature	-40°C to +85°C

PHYSICAL DIMENSIONS



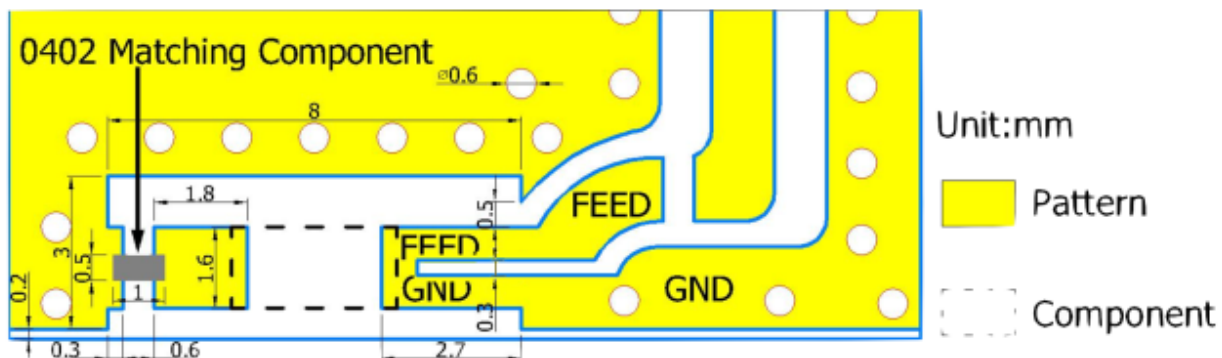
Symbol	Dimension (mm)
L	3.10 ± 0.20
W	1.60 ± 0.20
T	0.60 ± 0.10
A	0.25 ± 0.20

TERMINAL CONFIGURATION



PIN	Connection
1	Feeding
2	Soldering terminal

PCB DESIGN/LAYOUT CONSIDERATION

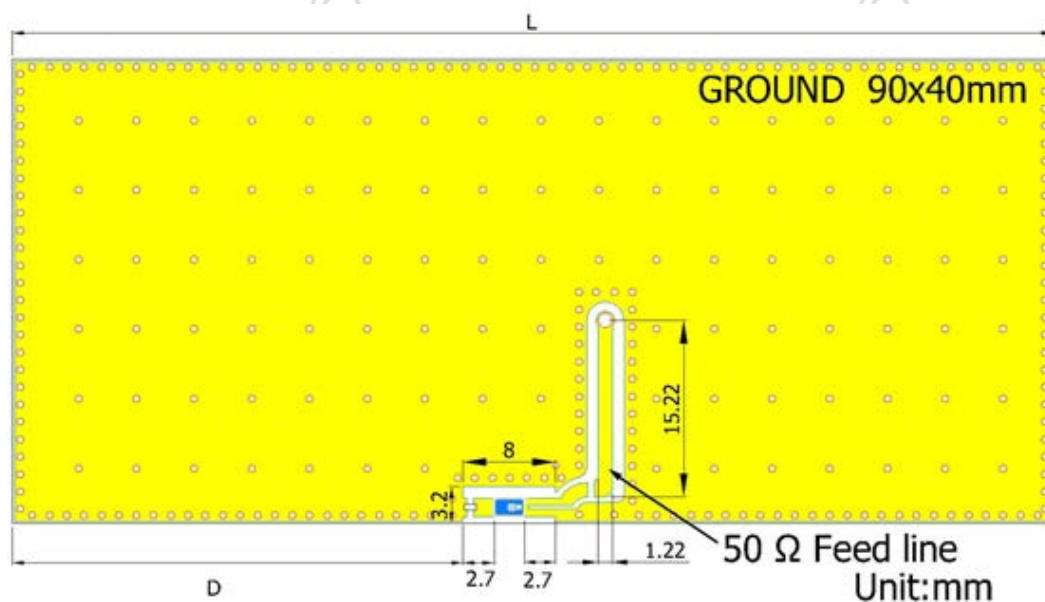




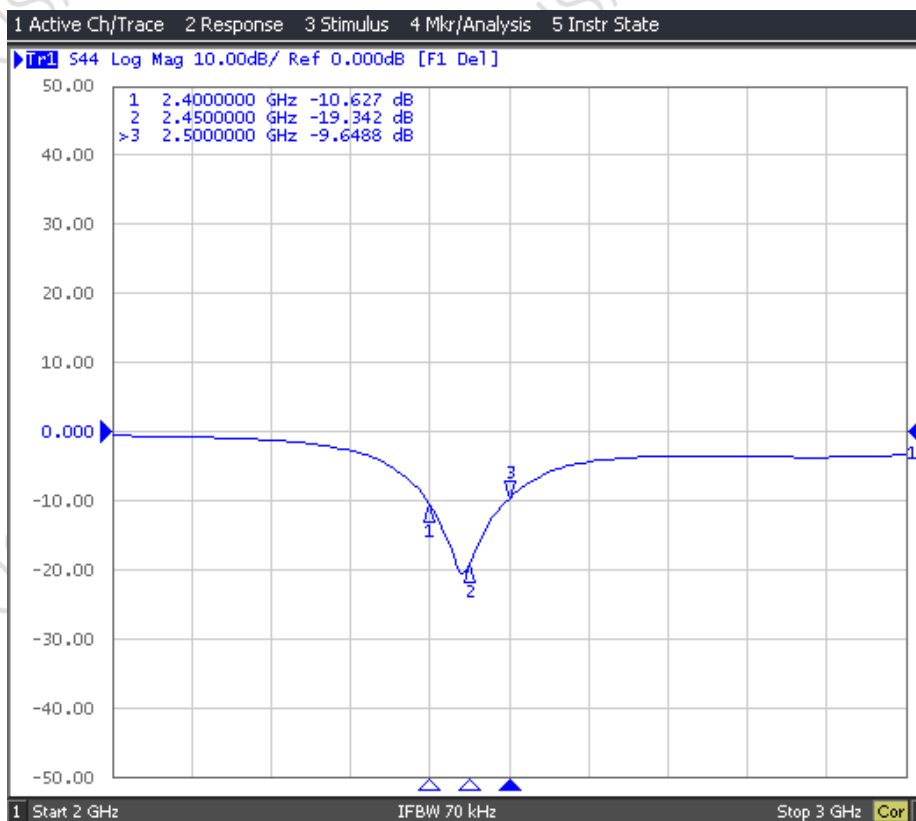
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TEST BOARD DESIGN



Antenna S11 on Test Board



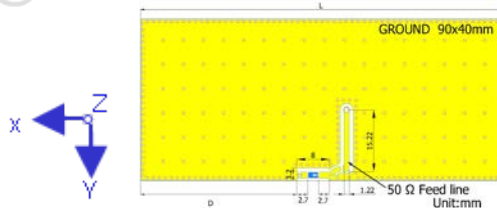


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RADIATION PATTERNS

The test board orientation is defined as:



	Vertical	Horizontal
Y - Z Plane Average Gain= -1.511 dBi	 Peak Gain = -2.15 dBi Average Gain = -3.84 dBi	 Peak Gain= -1.82 dBi Average Gain=-5.33 dBi
X - Z Plane Average Gain= -0.571 dBi	 Peak Gain= 1.02 dBi Average Gain= -2.68 dBi	 Peak Gain= 0.36 dBi Average Gain= -4.72 dBi
X - Y Plane Average Gain= -1.166 dBi	 Peak Gain= -8.74 dBi Average Gain= -13.63dBi	 Peak Gain= 2.64dBi Average Gain=-1.42 dBi