AT2450A3104AT ANTENNA SPECIFICATION

Rev. A

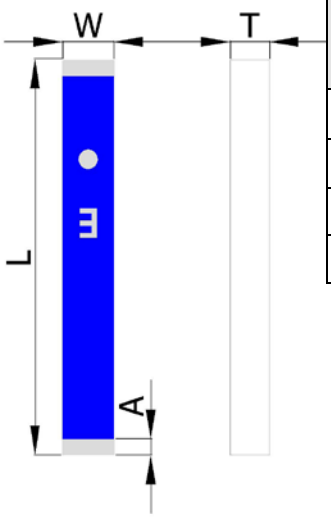
PRODUCT FEATURES

1. Surface mount ceramic antenna with a small size of 8.0 X 1.0 X 0.8 mm.
2. Highly stable under temperature and humidity changes.
3. Superior performance in a compact size, RoHS compliant.

RF CHARACTERISTICS

PN AT2450A3104AT	Specification
Working Frequency Range	2.4-2.5GHz
Gain	2.0 dBi(Typical)
Return Loss	-10 dB min
Polarization	Linear
Radiation Pattern	Omni-directional
Impedance	50Ω
Rated Power	3W max
Operating Temperature	-40˚C to +85˚C

PHYSICAL DIMENSIONS

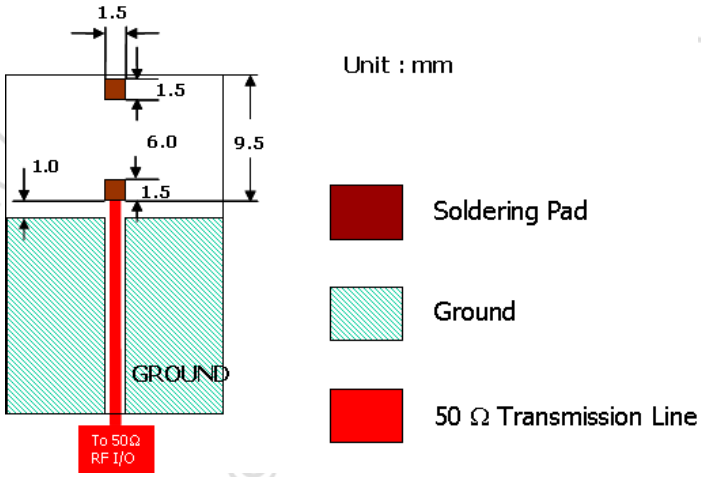


Symbol	Dimension (mm)
L	8.00 ± 0.20
W	1.05 ± 0.20
T	0.80 ± 0.10
A	0.30 ± 0.20

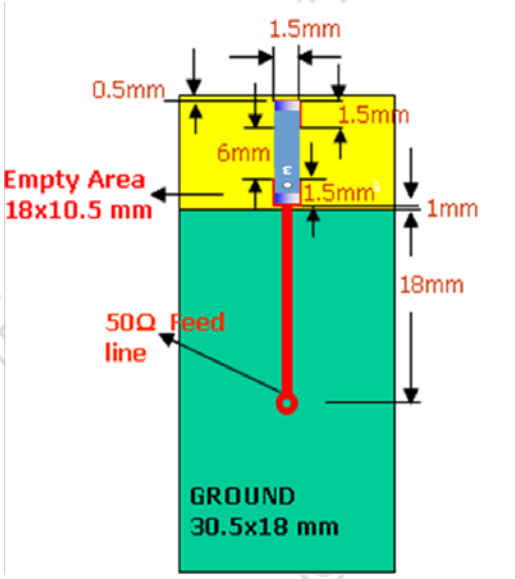
TERMINAL CONFIGURATION

PIN	Connection
P1	Feeding
P2	Soldering terminal

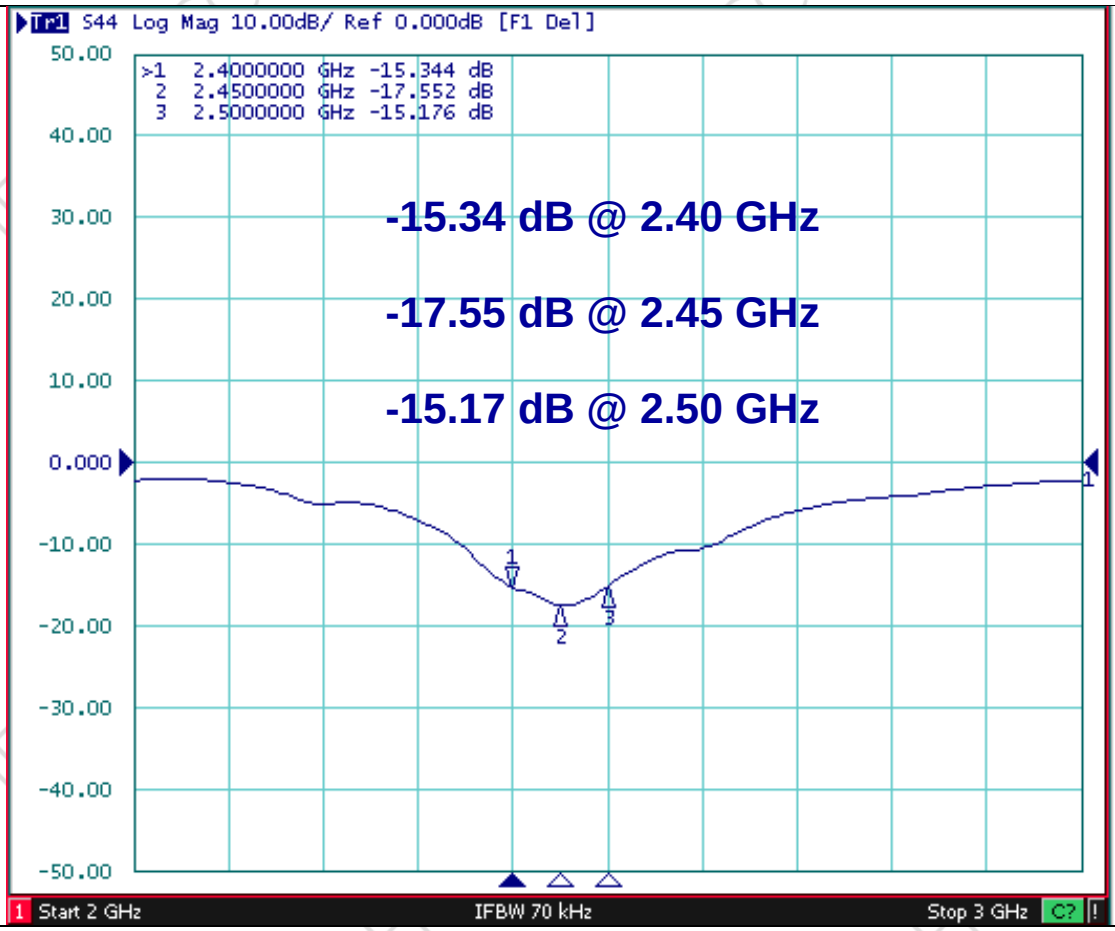
PCB DESIGN/LAYOUT CONSIDERATION



TEST BOARD DESIGN

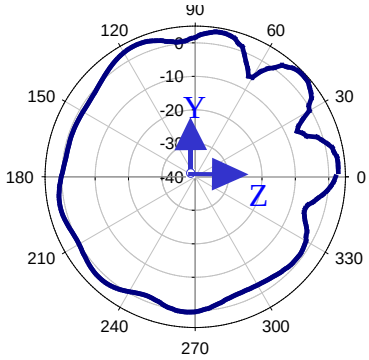
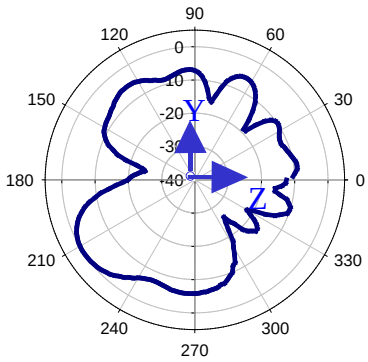
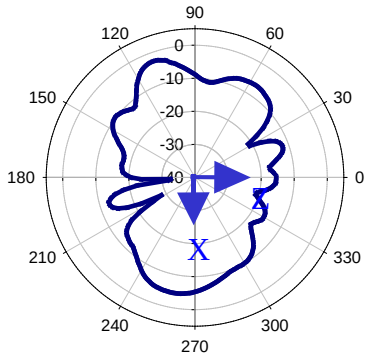
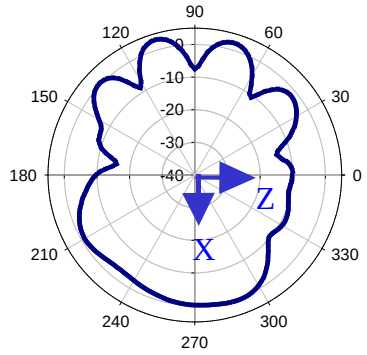
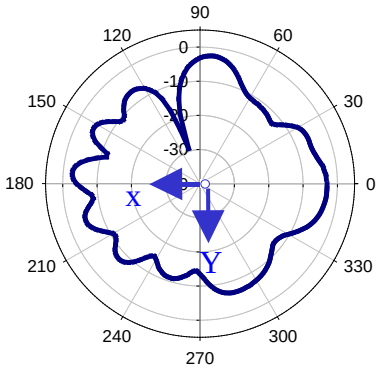
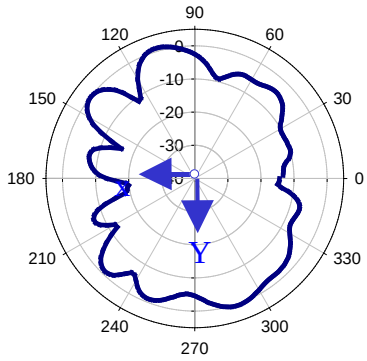


Antenna S11 on Test Board



RADIATION PATTERNS

The test board orientation is defined as:

	Vertical	Horizontal
Y - Z Plane Average Gain= 1.136 dBi	 Peak Gain = 3.25 dBi Average Gain = 0.44 dBi	 Peak Gain= -0.06 dBi Average Gain=-7.16 dBi
X - Z Plane Average Gain= -1.750dBi	 Peak Gain= -2.68 dBi Average Gain= -9.30dBi	 Peak Gain= 3.12 dBi Average Gain= -2.59 dBi
X - Y Plane Average Gain= -2.322 dBi	 Peak Gain= -2.43 dBi Average Gain= -7.10dBi	 Peak Gain= 0.96 dBi Average Gain= -4.08 dBi