



Preliminary Product Specification For 2.4GHz ISM Band PIFA antenna

Customer Approval Signature: _____
Customer Name:

Date Approved: _____

Engineering Approval: ____ NJS____

Date Approved: __02/22/06__



Explanation of Part Number

WP ANT FR4 022A
(1) (2)

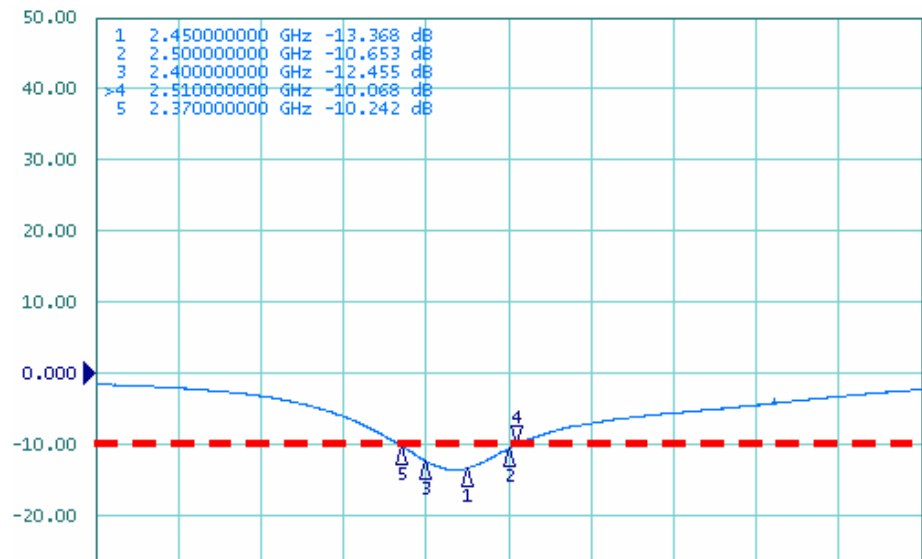
- (1) **Product Series Type:** FR4 PIFA Antenna
(2) **Product Model Number:** 2.4GHz ISM band

Electrical Properties

Item	Specification
Frequency Range	2.40 – 2.50 GHz
Impedance	50Ω
VSWR	Max: 2.0:1 Typical: 1.5:1
Gain (Peak)	2.0 dBi (Typical)
Polarization	Linear
Radiation Pattern	Near omni-directional in the horizontal plane
Power handling (max)	1 Watt

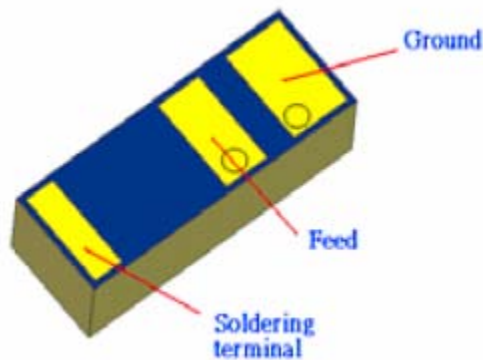
Preliminary
Subject to Change

VSWR (typical data)





Antenna Construction

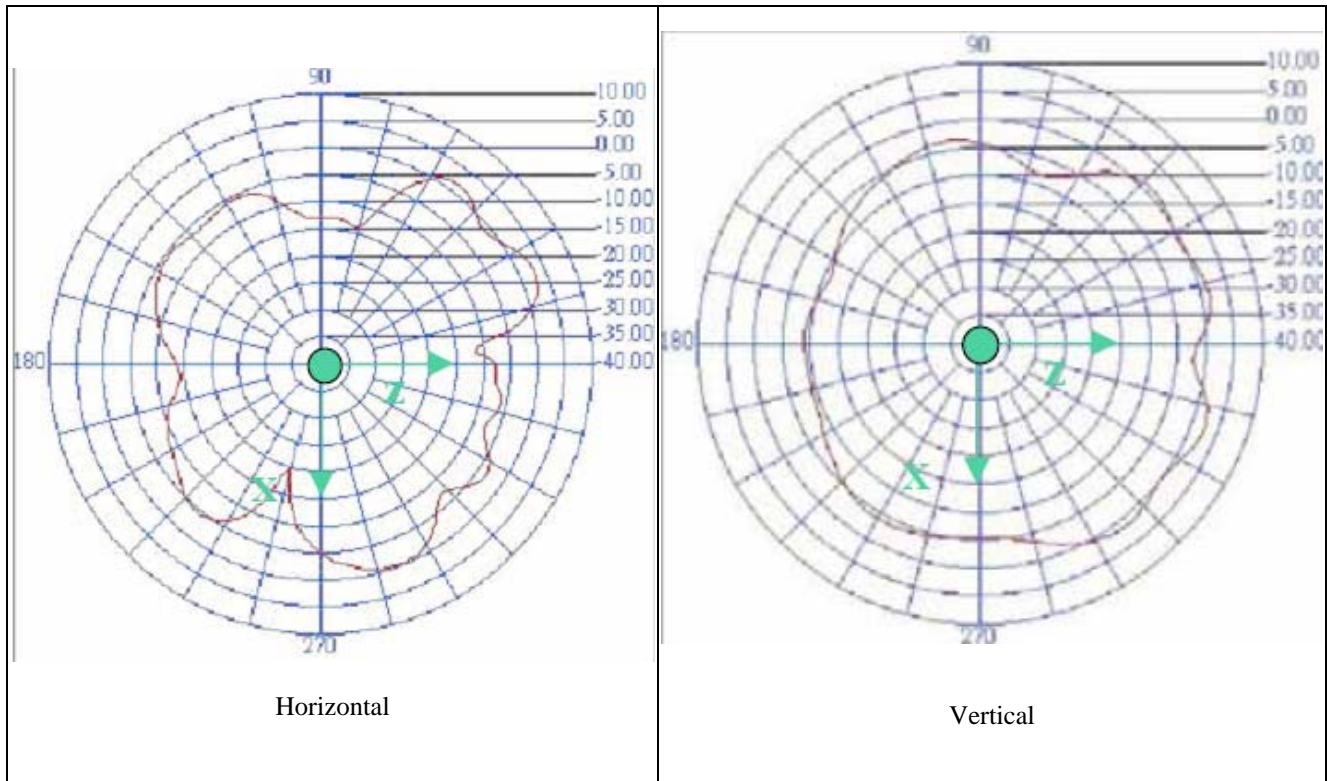


Antenna Dimension

	L	$9.9 \pm 0.15 \text{ mm}$	-
	W	$3.7 \pm 0.15 \text{ mm}$	-
	T	$3.8 \pm 0.20 \text{ mm}$	-
	P_w	$3.48 \pm 0.10 \text{ mm}$	Pad width
	P_1	$1.4 \pm 0.10 \text{ mm}$	Soldering terminal
	P_2	$1.9 \pm 0.10 \text{ mm}$	Soldering terminal
	P_3	$2.4 \pm 0.15 \text{ mm}$	Feed terminal



Typical Gain Patterns (Measured with ground PCB of 110mm x 10mm)



Solder Pattern design

