



霖昱微波科技股份有限公司

Rainsun Corporation

電話：(03)366-4505 傳真：(03)361-8263

## 產 品 承 認 書

### PRODUCT SPECIFICATION

客戶名稱：麗臺科技股份有限公司

承認日期：94 年 03 月 02 日

承認編號：9400017

客戶品名：

產品名稱：Chip Antenna AN2051 (2.68GHz)

承認印欄	94 年 03 月 02 日	備註欄
承認	確認	擔當 陳明宗 先生

# AN2051

**Multilayer Chip Antenna for 2.4GHz  
Wireless Communication**

**(Advance Information)**

## AN2051 Multilayer Chip Antenna

### ◆ Features

- Miniaturized size 5.1(L)X2.0(W)X1.0(H)
- Light weight and low profile
- Omni-directional in azimuth



### ◆ Applications

- 2.4GHz wireless communications
- Modules
- Bluetooth
- 802.11b
- Other 2.4GHz Wireless Application

## Specifications

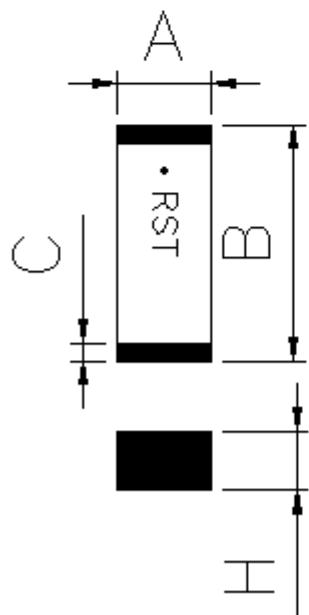
Center frequency	2.45GHz
Peak gain	0.5dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +85 °C
VSWR	2.0 (Max)
Input Impedance	50 Ohm
Power handling	3W (Max)
Bandwidth	110MHz
Azimuth beamwidth	Omni-directional
Polarization	Linear

## Pin configuration



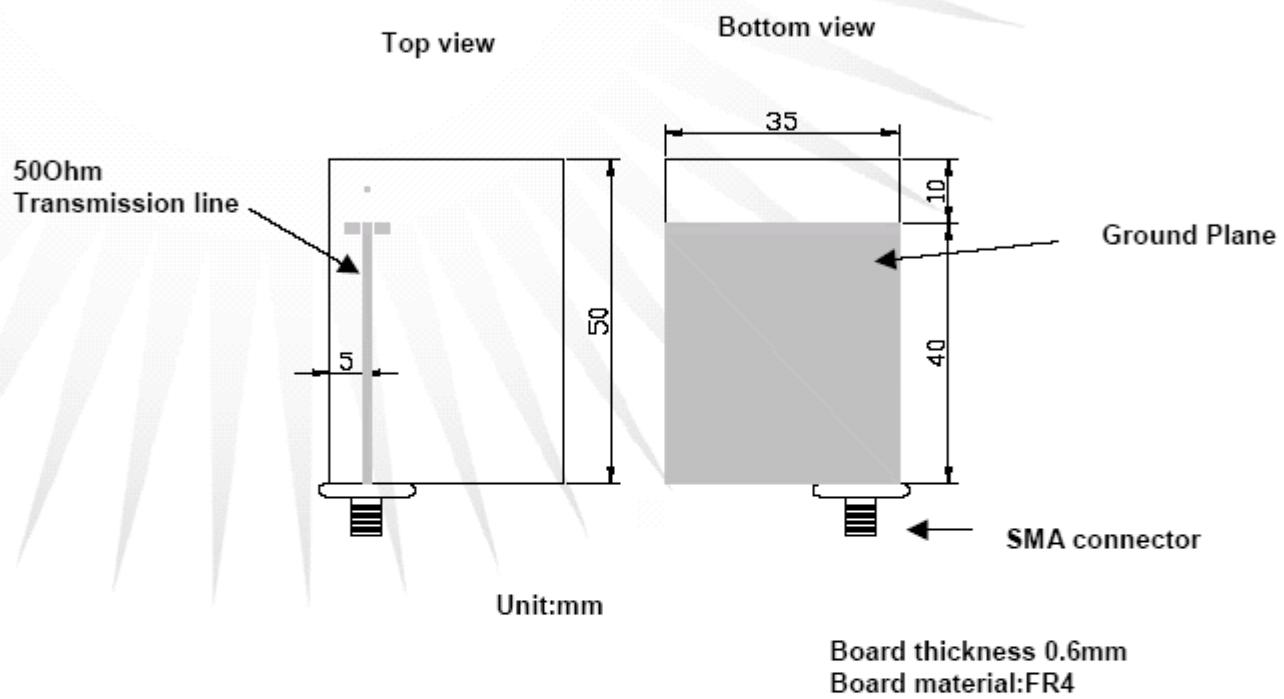
Pin No	Pin assignment
1	Feed termination
2	Solder termination

## Dimensions



symbol	Dimensions(mm)
A	2.0±0.1
B	5.1±0.1
C	0.5±0.02
H	1.0±0.1

## Recommend Test Board Pattern



## Testing Block



## Measurement

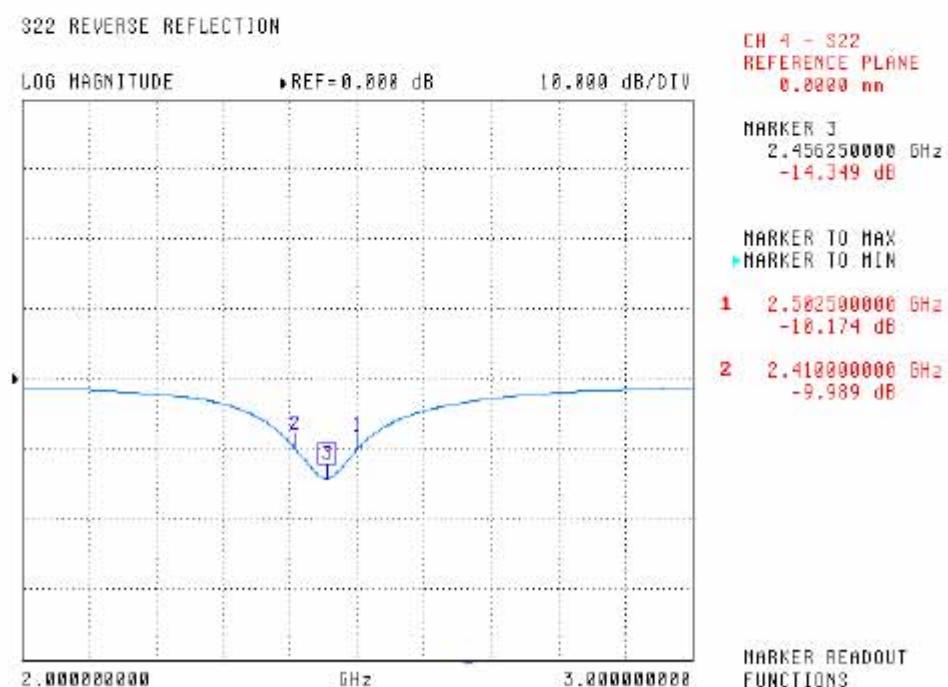


**Testing Instrument:** Anritsu 37369C VNA (Vector Network Analyzer)

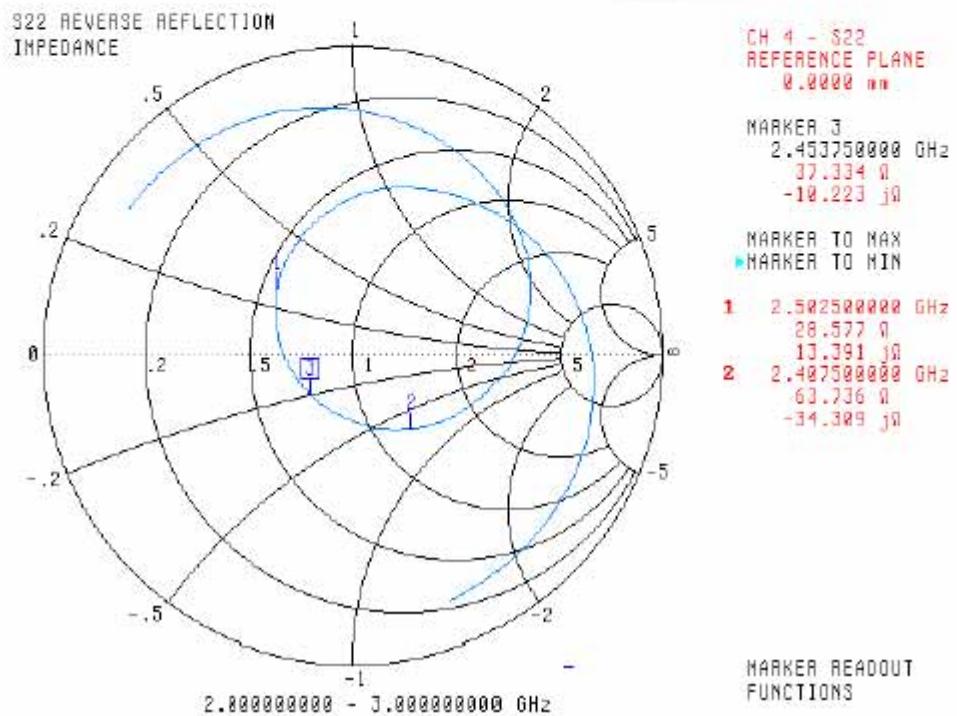
VNA calibrate with 1 path reflection only calibration sequence on test board feed point. The test board layout as recommend dimension.

## Measured Antenna patterns

### Return loss

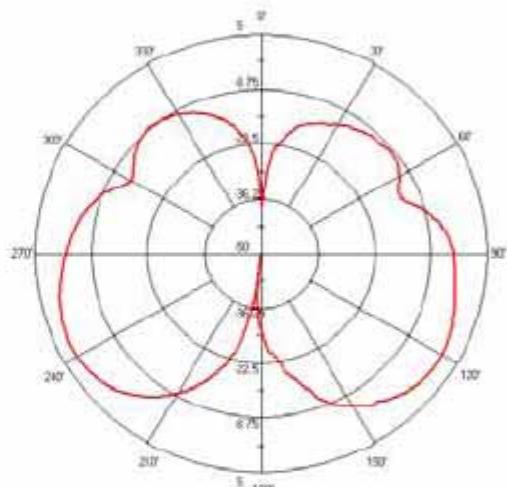
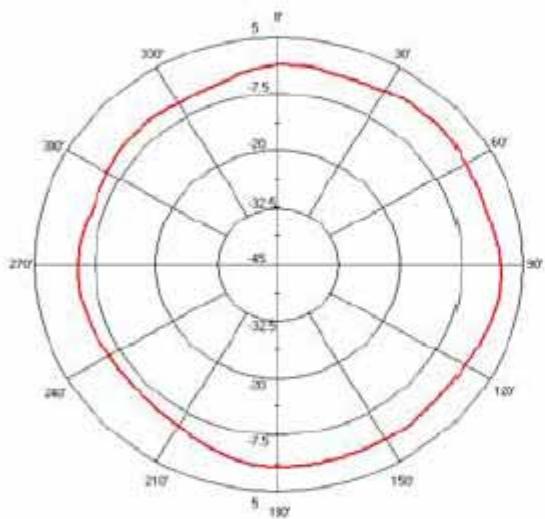


## Smith Chart



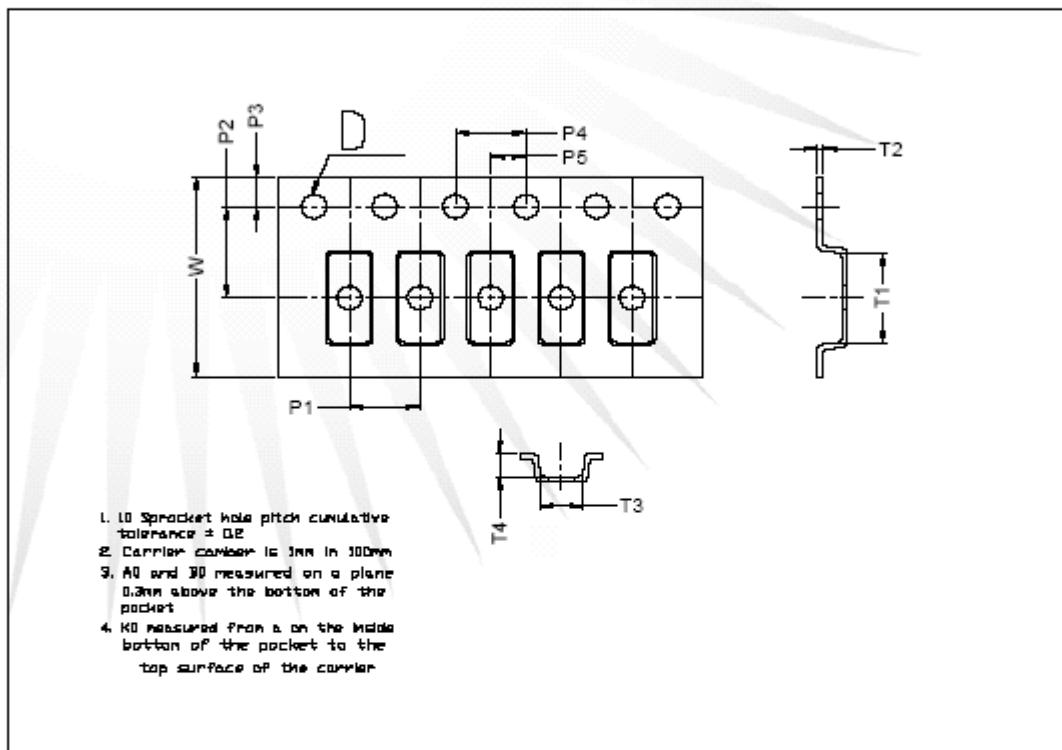
2.45 GHz H-Plane

2.45 GHz E-Plane



# Packing

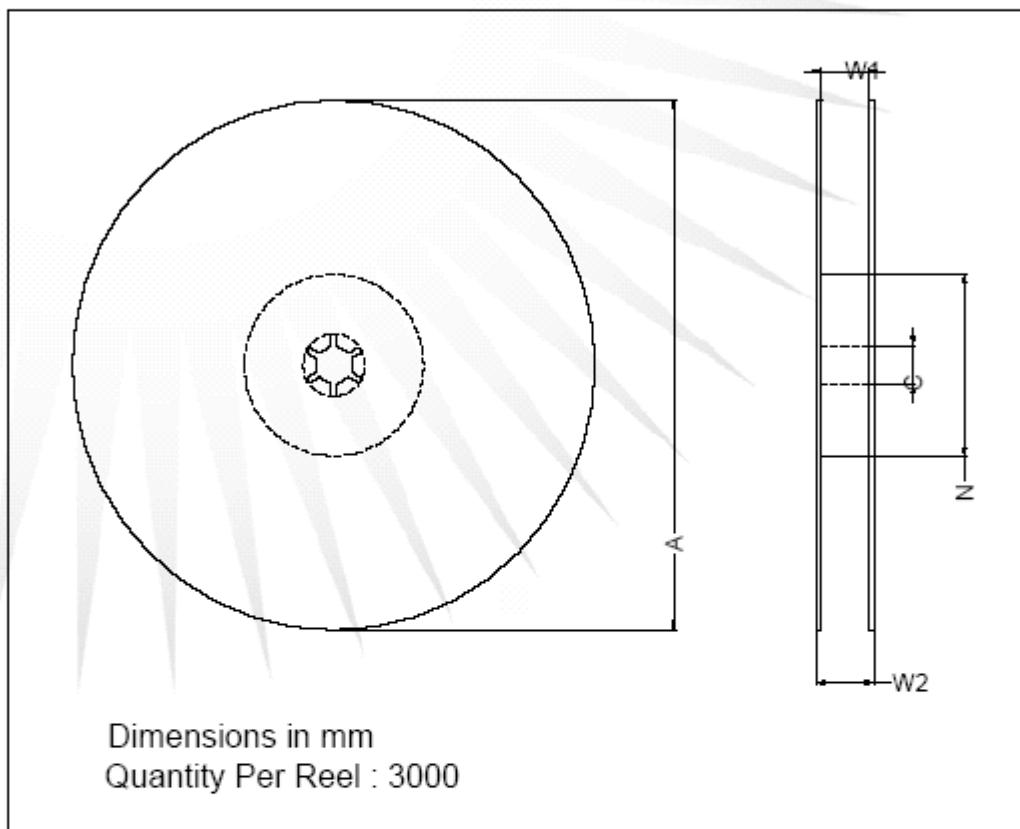
## Blister Tape



Symbol	W	P1	P2	P3	P4	P5
Dimension	$12 \pm 0.3$	$4.0 \pm 0.1$	$5.5 \pm 0.1$	$1.75 \pm 0.1$	$4.0 \pm 0.1$	$2.0 \pm 0.1$
Symbol	D		T1	T2	T3	T4
Dimension	$1.5 \pm 0.1$		$5.4 \pm 0.1$	$0.3 \pm 0.05$	$2.4 \pm 0.1$	$1.4 \pm 0.1$

Dimensions in mm

## Reel



Symbol	A	C	N	W1	W2
Dimension	$180 \pm 0.1$	$13.0 \pm 0.5$	$62 \pm 0.1$	$12 \pm 0.2$	$16 \pm 0.2$

Dimensions in mm