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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

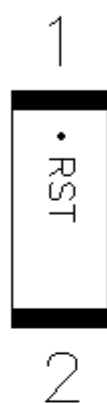
- . 2.4GHz wireless communications
- . Modules
- . Bluetooth
- . 802.11b
- . Other 2.4GHz Wireless Application



Specifications

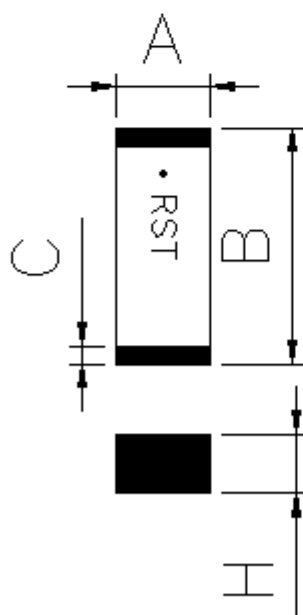
Center frequency	2.45GHz
Peak gain	0.5dBi
Operation temperature	-40 ~ +85 °C
Storage temperature	-40 ~ +85 °C
VSWR	2.0 (Max)
Input Impedance	50 Ohm
Power handling	3W (Max)
Bandwidth	110MHz
Azimuth beamwidth	Omni-directional
Polarization	Linear

Pin configuration



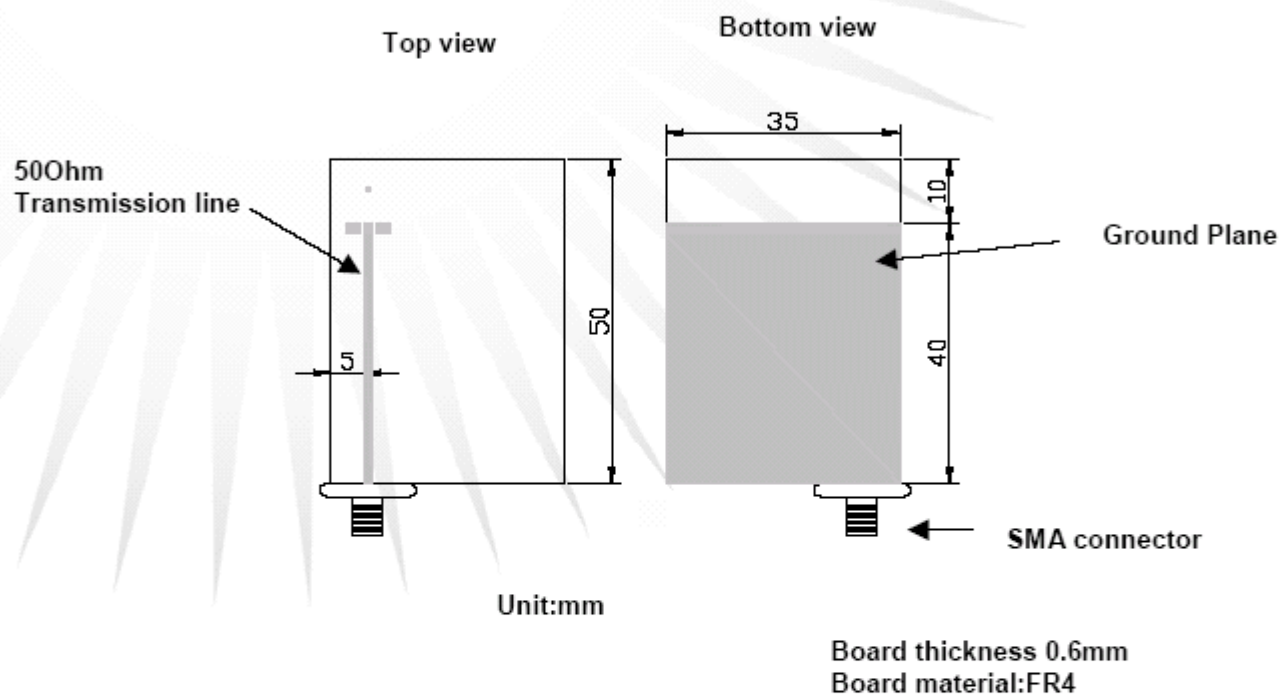
Pin No	Pin assignment
1	Feed termination
2	Solder termination

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

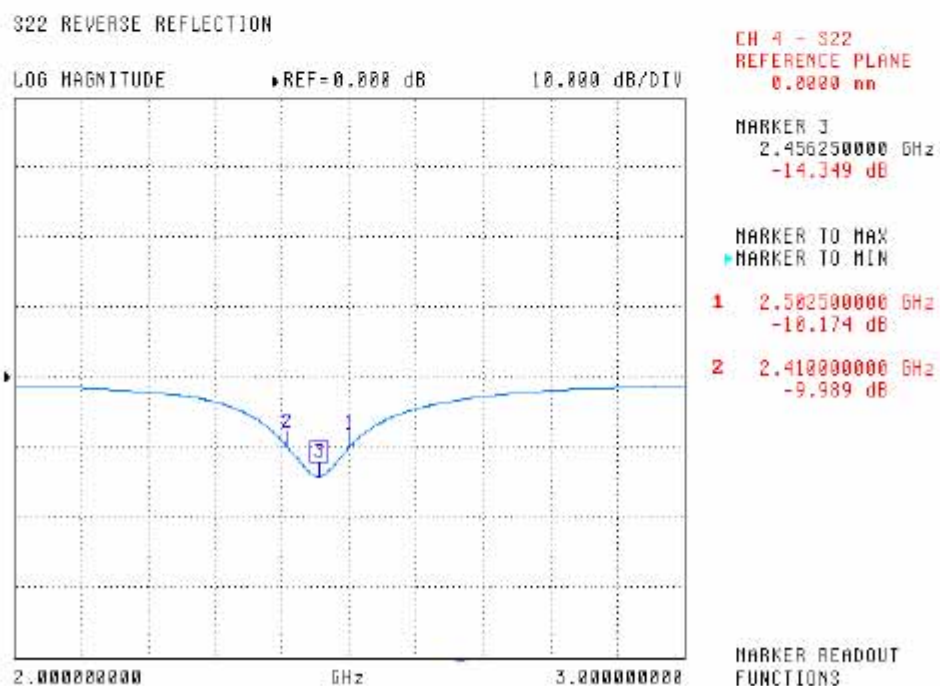


Testing Instrument: Anritsu 37369C
VNA(Vector Network Analyzer)

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

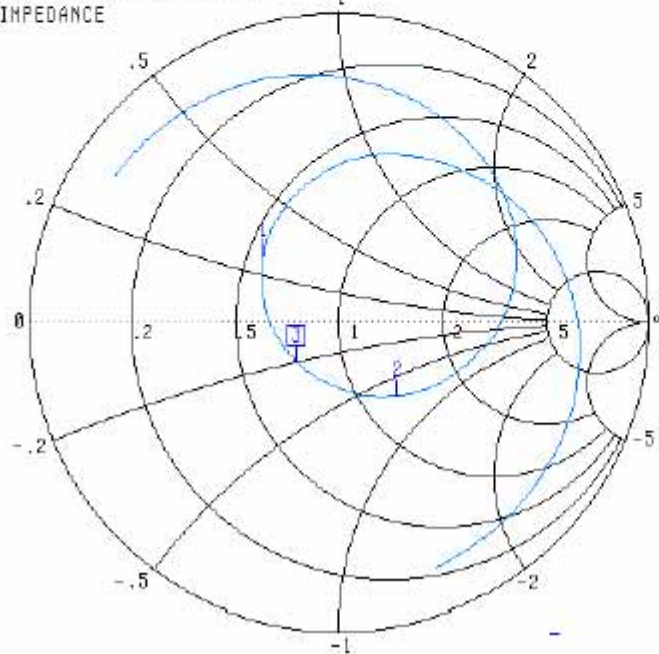
Measured Antenna patterns

Return loss



Smith Chart

322 REVERSE REFLECTION
IMPEDANCE



CH 4 - S22
REFERENCE PLANE
0.0000 mm

MARKER 3
2.453750000 GHz
37.334 Ω
-10.223 j Ω

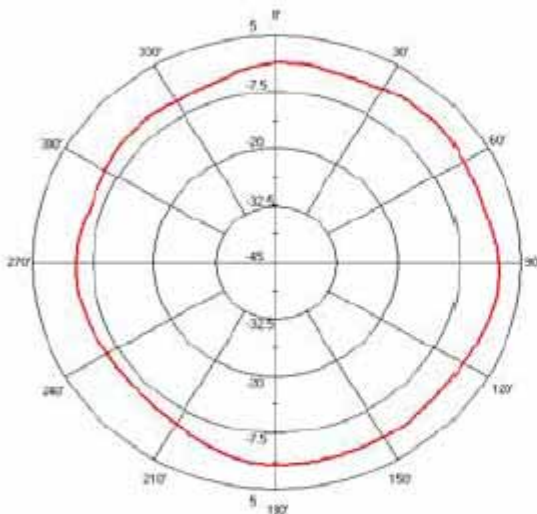
MARKER TO MAX
MARKER TO MIN

1 2.50250000 GHz
28.577 Ω
13.391 j Ω
2 2.48750000 GHz
63.736 Ω
-34.389 j Ω

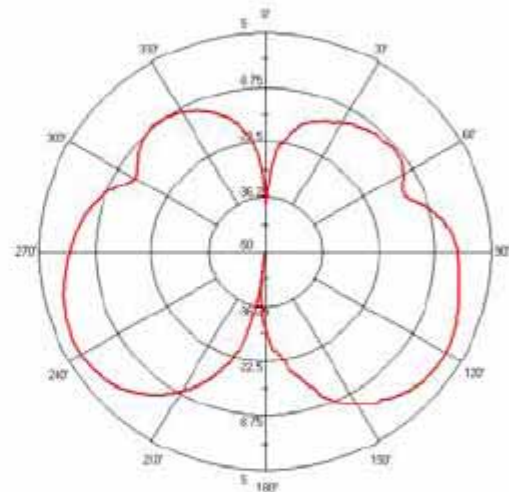
MARKER READOUT
FUNCTIONS

2.000000000 - 3.000000000 GHz

2.45 GHz H-Plane

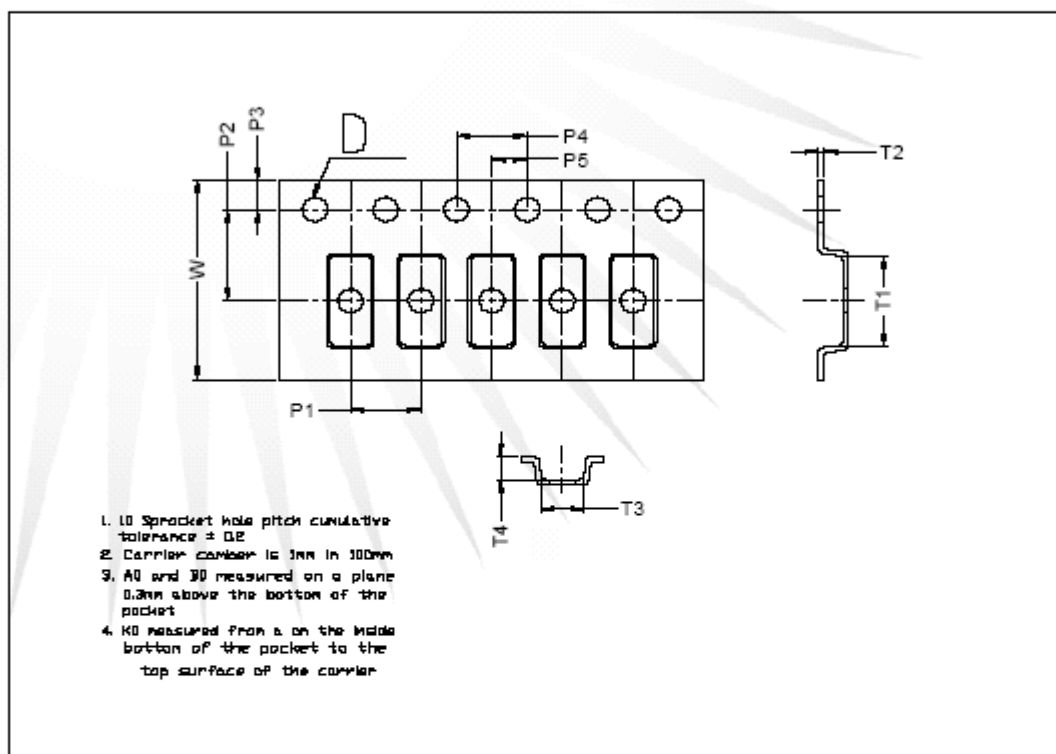


2.45 GHz E-Plane



Packing

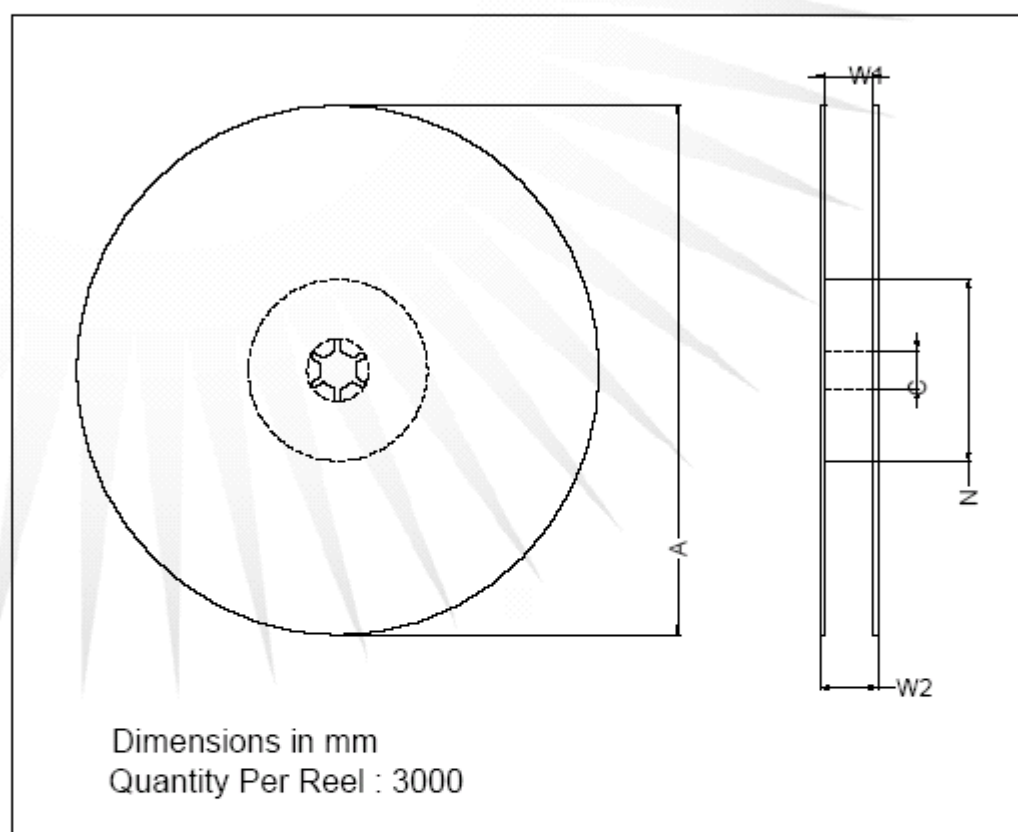
Blister Tape



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

Dimensions in mm

Reel



Symbol	A	C	N	W1	W2
Dimension	180±0.1	13.0±0.5	62±0.1	12±0.2	16±0.2

Dimensions in mm