

# Specification of CHIP DIELECTRIC ANTENNA

SPEC No. :NAN68-PC0332F

Part Number :ANCW12G45SAA117TT1/RD3

\*\*\*: TT1: Bulk package / RD3: 3000pcs/reel

A>: Rev. by J.K on 5<sup>th</sup>/Dec/'03, B>: Rev. by R.I. on 8/Sep./04, C>: Rev. by R.I. on 30/Nov./04, D>: Rev. by R.I. on 1/Dec./04

E>: Rev. by R.I. on 24/Dec./04, F>: Rev. by E.M. on 19/Jan./05

Written by S. Ito

Checked by Y. Kushihi

Date 19/Mar./2003

## 1. Electrical Characteristics

A>

|                 |                     |
|-----------------|---------------------|
| Operation Temp  | -40 to +85 degree C |
| Polarization    | Linear              |
| Frequency (Fo)  | 2450MHz.            |
| Band Width (BW) | F0 +/- 50MHz.       |
| V.S.W.R at BW   | 2.5 max.            |
| Impedance       | 50 Ω                |

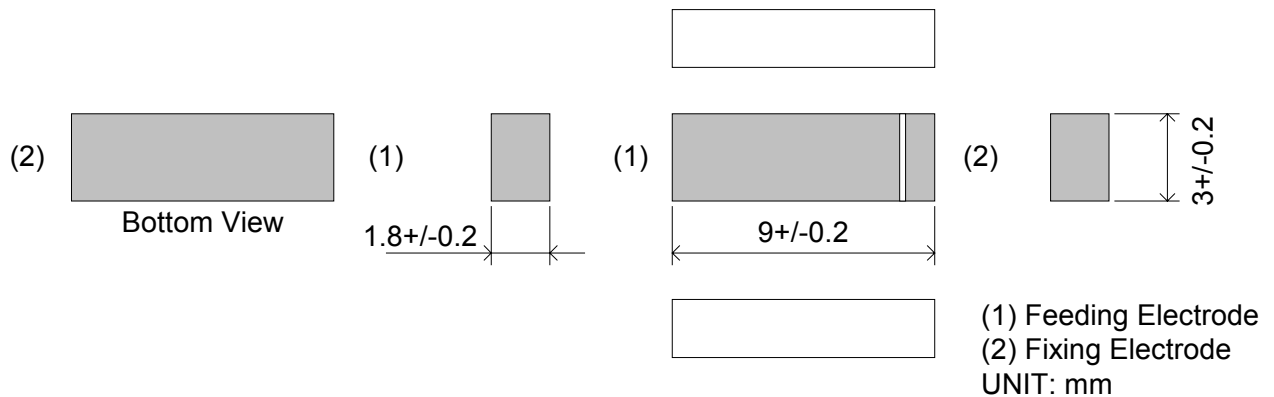
Note 1: This electrical characteristics are influenced by the land pattern, PCB size, case and so on.

Note 2: This electrical characteristics are guaranteed with our standard measurement conditon which is used our standard land pattern and PCB in Section 2.2 and 2.3.

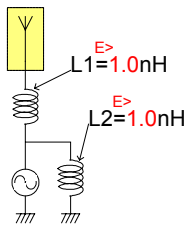
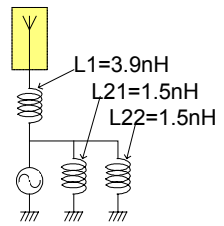
## 2. Mechanical

### 2.1.Dimensions

A>B>F>



### A>C> Matching Circuit

| Application      | 2.4GHz W-LAN / BT                                                                                                | PHS                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Matching Circuit |  <p>L1=1.0nH<br/>L2=1.0nH</p> |  <p>L1=3.9nH<br/>L21=1.5nH<br/>L22=1.5nH</p> |
| Frequency (Fo)   | 2425MHz.                                                                                                         | 1913MHz                                                                                                                          |
| Band Width (BW)  | 225MHz<br>(VSWR < 3)                                                                                             | 100MHz<br>(VSWR < 3)                                                                                                             |

Note 1: This electrical characteristics are guaranteed with our standard measurement conditon which is used our standard land pattern and PCB in Section 2.2 and 2.3.

Preliminary Specification of CHIP DIELECTRIC ANTENNA

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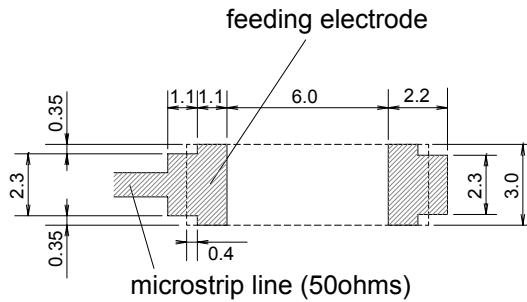
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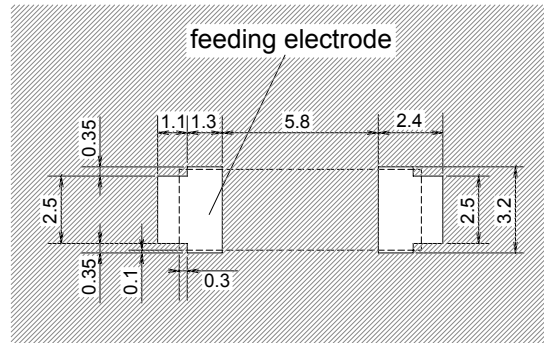
Date 19/Mar./2003

2.2. Standard lands pattern and resist pattern

A>



recommended land pattern of PCB

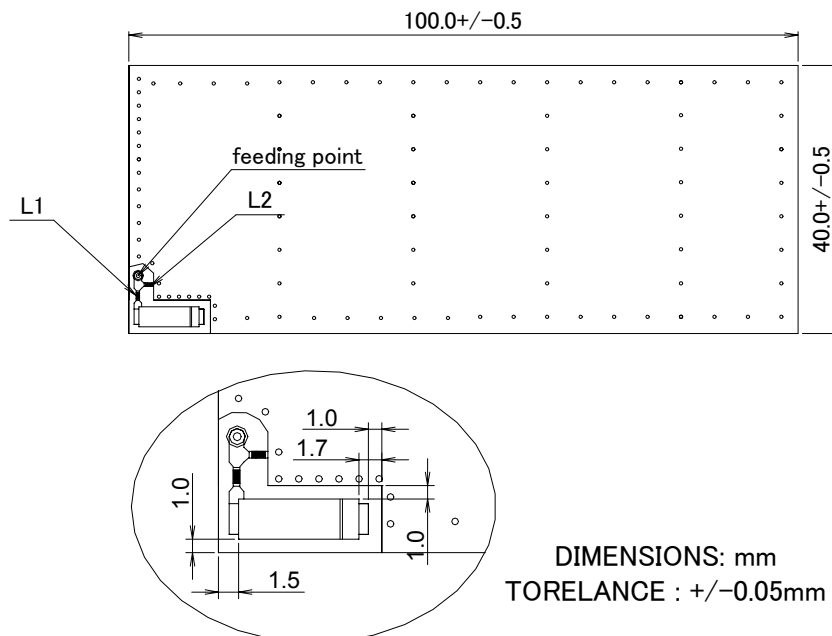


recommended solder-resist pattern

DIMENSIONS : mm  
TOLERANCE : +/-0.05mm

2.3. Standard PCB

A>F>



DIMENSIONS: mm  
TORELANCE : +/-0.05mm

Substrate : FR-4 (Both Printed)

Thickness : 1.0mm (Thickness of copper isb 0.035mm )