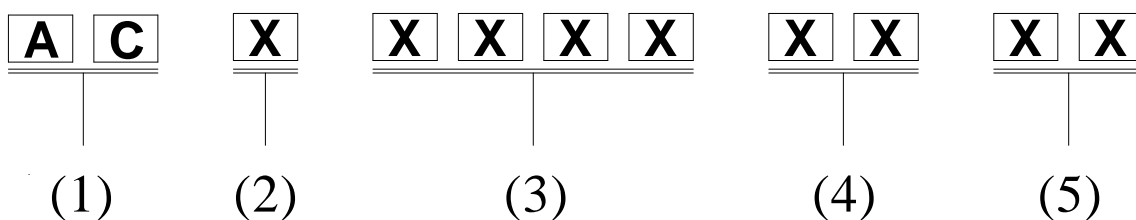


LAN Chip Type Antenna Module

1. Explanation of part number :



(1)Product series : LAN Antenna Chip

(2)System code : X for antenna center frequency
Exp.: A = 2.45G

(3)Size code :
Exp.: 7636 = 7.6x3.6 mm

(4)Type code :

(5)Suffix :

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
ANGLES=± HOLEDIA=±

SCALE : -----

UNIT : mm

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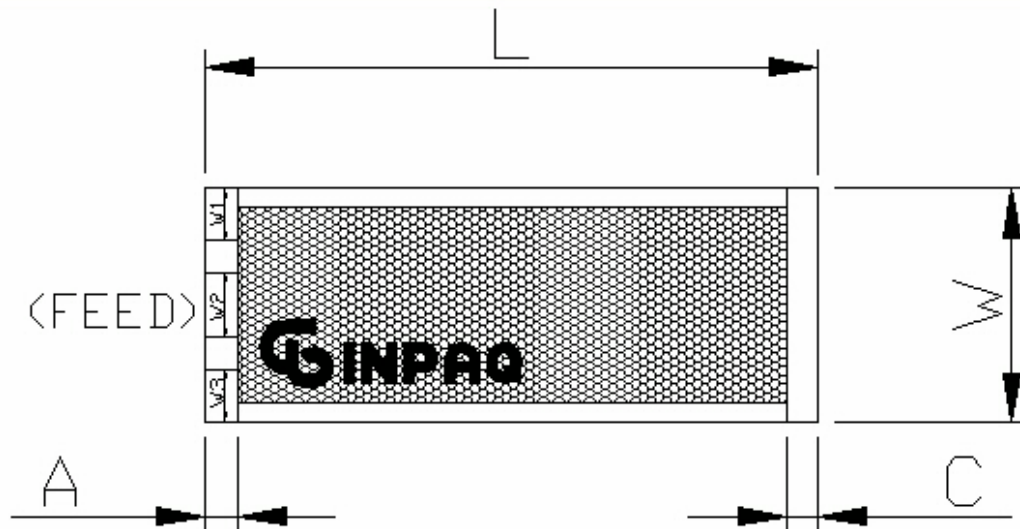
2. Electrical Specification :

ITEM	SPECIFICATION
Frequency Band	A= 2400MHz~2500MHz
VSWR	Less than 2
Polarization	Linear
Peak Gain	2.5dBi typ.
Impedance	50Ω typ.

Matching circuit :

A Pi matching circuit will be required to have better performance

3. Physical Dimension :



Model	Size(mm)	L	W	A	C	W1	W2	W3
ACA7636		7.6± 0.3	3.6± 0.3	0.5 Max.	0.5 Max.	0.8± 0.15	1.0± 0.15	0.8± 0.15

unit : mm

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4. Performance Specifications:

4-1. Standard condition

Unless otherwise specified, ambient atmosphere at performance tests and measuring shall meet the following conditions

Ambient temperature : 25 ± 2 °C

Relative humidity : 45 to 65%

Atmosphere pressure : 0.87×10^5 to 1.07×10^5 Pa

4-2. Test method

Unless otherwise specified, the board, the land pattern, the flux, the solder, and the soldering method in performance tests shall be subjected to this specification

4-3. Environmental Performance

Characteristic		Specifications	Test Methods		
4-3-1	Temperature Cycling	VSWR≤2 And no evidence of mechanical damage	Specimens shall be tested for 5 cycles continuously in accordance with the following duty cycle		
			Step	Temperature	Time
			1	- 40 ± 2 °C	30±3
			minutes		
			2	+ 25 ± 2 °C	2 ~3
			minutes		
			3	+ 85 ± 2 °C	30±3
			minutes		
			4	+ 25 ± 2 °C	2 ~3
			minutes		

UNLESS OTHER SPECIFIED TOLERANCES ON :

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5. Machinery Performance:

Characteristic		Specifications	Test Methods
5-1	Vibration	$VSWR \leq 2$	Specimens shall be subjected to a single vibration having an amplitude of 0.8mm (1.6mm double amplitude) for 2 hours in each three mutually perpendicular directions for a total of 6 hours. The vibration frequency shall be varied uniformly 10 to 55 Hz and return to 10 Hz shall be traversed in 1 minute.
5-2	Bending	$VSWR \leq 2$	Specimens shall be soldered to testing board. The substrate shall be supported at two points 45 mm from its center with mounting surface, and the middle part of substrate shall be pressed by means of the pressing rod at rate of 1.0 mm per second until the deflection becomes 3 mm and then the pressure shall be maintained for 30 seconds. <u>Testing Board</u> : shall be Glass-Fabric Based Epoxy Resin with 100 mm in length and 40 mm in width and 1.6 mm in thickness. <u>Pressing rod</u> : shall be a metal rod with 20 mm in thickness and 55 mm in width having a cylindrical end with radius R of 340 mm.
5-3	Terminal Solderability	95% coverage in min	Specimens shall be tested per MIL-STD-202F method 208. Test temperature of solder : $230 \pm 5^{\circ}\text{C}$ Dwell time in solder : 5 ± 0.5 seconds

UNLESS OTHER SPECIFIED TOLERANCES ON :

$X = \pm$ $X.X = \pm$ $X.XX =$
 ANGLES = \pm HOLEDIA = \pm

SCALE : -----

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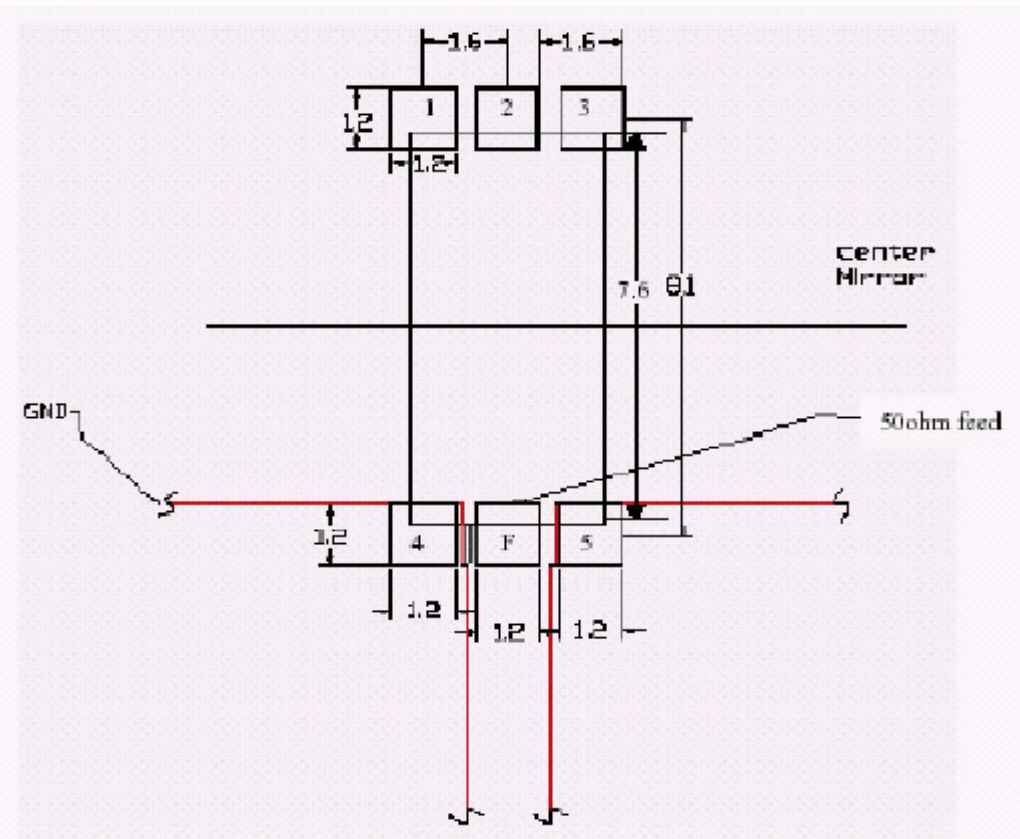
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6. Layout Recommendation:




PAD Definition:

- 1: No connection (floating)
- 2: No connection (floating)
- 3: No connection (floating)
- 4: GND
- 5: GND
- F: 50 ohm feed point

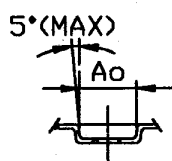
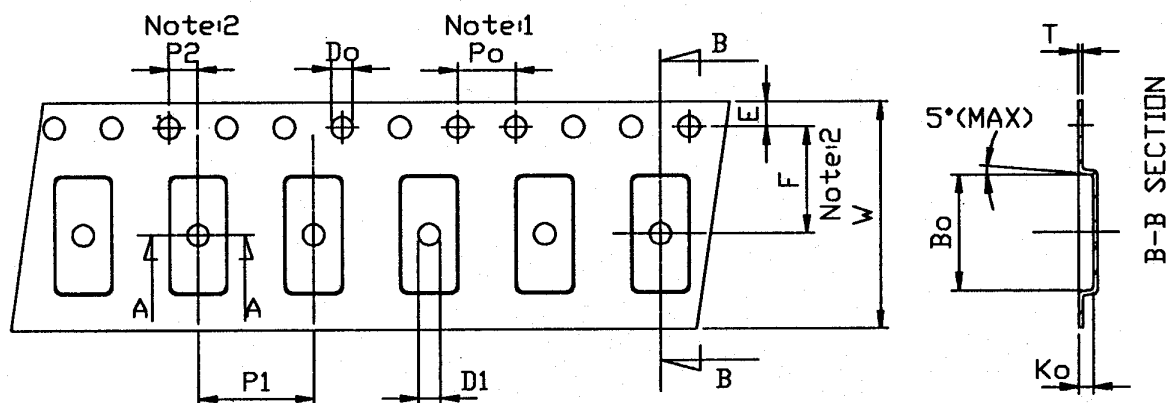
Note:

Adding a 50 ohm transmission line before the feed point will be ok

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7. Taping Package and Label Marking:

7-1.Carrier tape dimensions



A-A SECTION

Unit: mm

Symbol	Spec.
K1	—
Po	4.0±0.10
P1	8.0±0.10
P2	2.0±0.10
Do	1.50 ^{+0.1} _{+0.}
D1	1.50(MIN)
E	1.75±0.10
F	7.50±0.10
10Po	40.0±0.10
W	16.0±0.20
T	0.30±0.10

$$Ao = \underline{4.0 \pm 0.10} \text{ mm}$$

$$Bo = \underline{8.20 \pm 0.10} \text{ mm}$$

$$Ko = \underline{1.02 \pm 0.10} \text{ mm}$$

Notice:

1. 10 Sprocket hole pitch cumulative tolerance is $\pm 0.1\text{mm}$
2. Pocket position relative to sprocket hole measured as true position of pocket not pocket hole.
3. Ao & Bo measured on a place 0.3mm above the bottom of the pocket to top surface of the carrier.
4. Ko measured from a plane on the inside bottom of the pocket to the top surface of the carrier.
5. Carrier camber shall be not than 1mm per 100mm through a length of 250mm.

UNLESS OTHER SPECIFIED TOLERANCES ON :

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SCALE : -----

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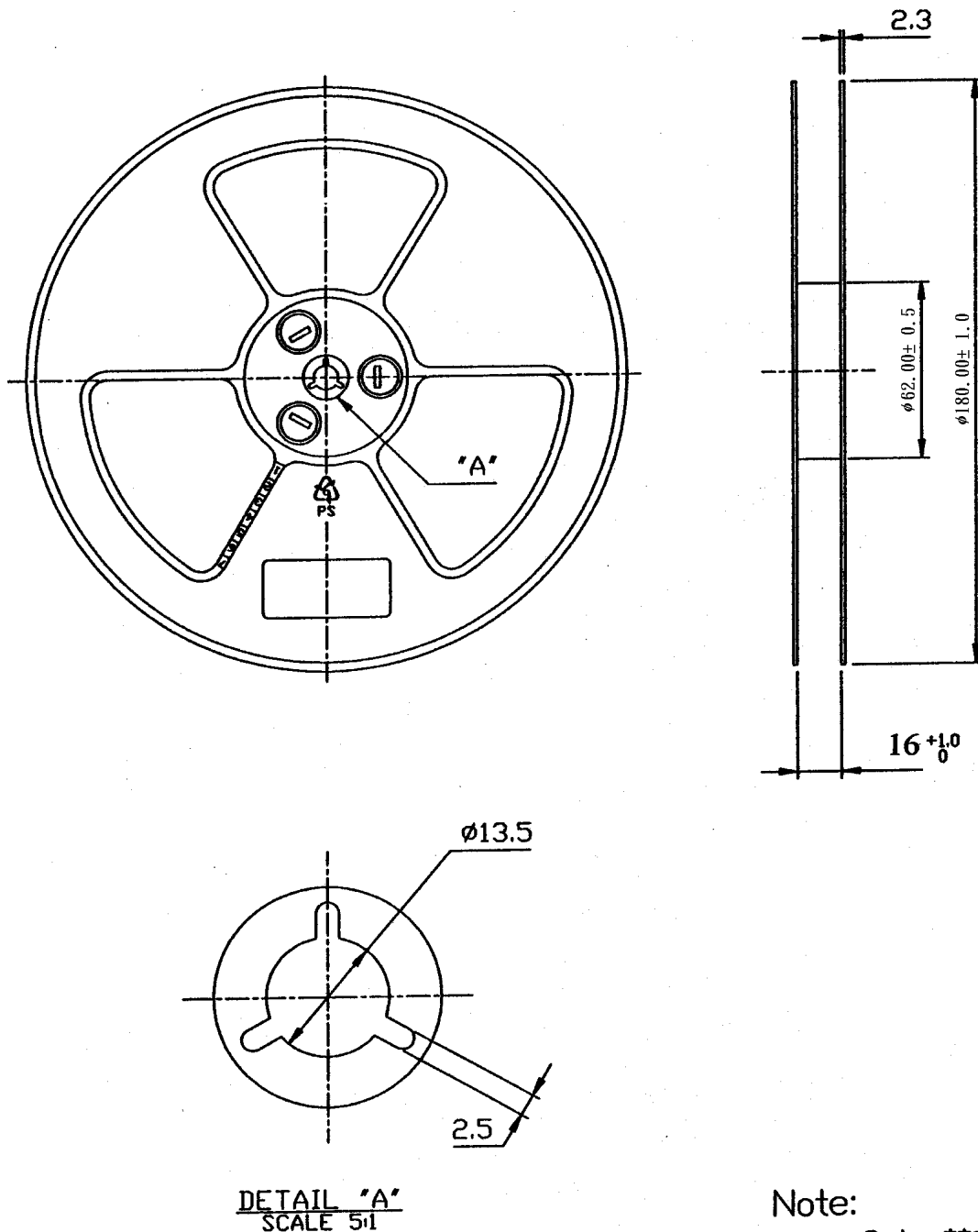
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7-2. Taping reel dimensions



Note:
Color:藏青色

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X=± X.X=± X.XX=±
ANGLES=± HOLEDIA=±

SCALE : -----

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