

# 2.4 / 5GHz Multilayer Monopole Antenna (for W-LAN)

Date: Sep/01/2011

## AH 104N2450D1 (2.4GHz band)

### Shapes

L= 10.0 ± 0.3 mm  
W= 4.0 ± 0.3 mm  
T= 1.0 ± 0.3 mm

### Feature

- \* Wide Band
- \* High Performance



### Actual data

Efficiency : -1.3dB ( 73%)  
Peak Gain : 2.1dBi  
Average Gain : 0.3dBi (ZX plane-Vertical polarization)  
@2450MHz

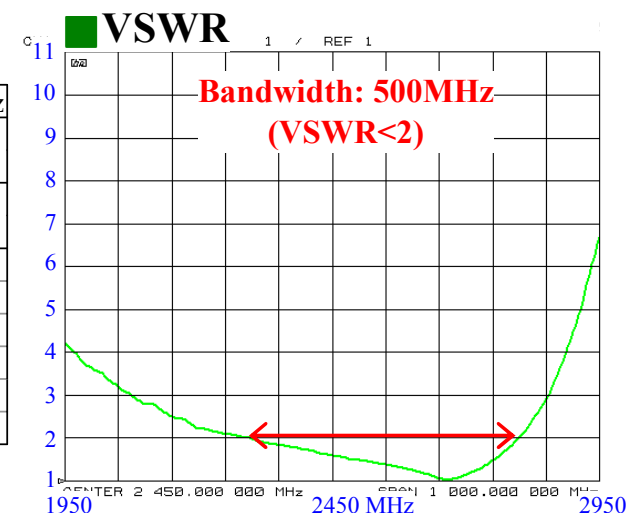


\*on Taiyo Yuden's Evaluation Board  
( 54 x 12 mm )

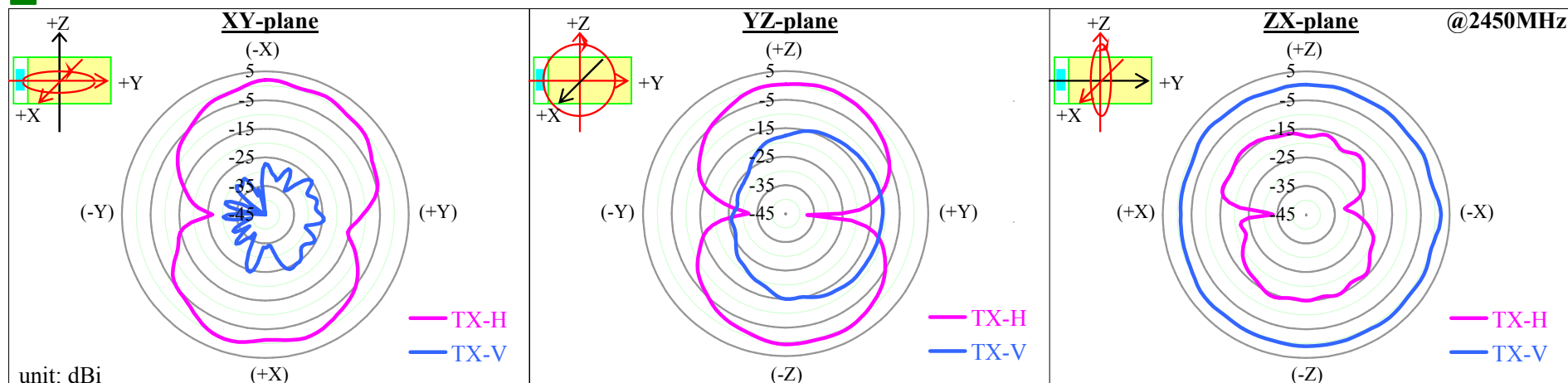
\*Element-GND Distance : 1.5 mm

### Electrical Characteristics

|                    |          |      | 2400MHz        | 2450MHz        | 2500MHz        |
|--------------------|----------|------|----------------|----------------|----------------|
| Efficiency [dB]    |          |      | -1.4<br>( 72%) | -1.3<br>( 73%) | -1.2<br>( 76%) |
| Peak gain [dBi]    |          |      | 1.7            | 2.1            | 1.4            |
| Average gain [dBi] | XY-plane | TX-H | -2.6           | -2.5           | -2.5           |
|                    |          | TX-V | -29.5          | -29.0          | -29.1          |
|                    | YZ-plane | TX-H | -2.4           | -2.5           | -2.5           |
|                    |          | TX-V | -15.1          | -15.1          | -15.3          |
|                    | ZX-plane | TX-H | -17.1          | -17.0          | -16.8          |
|                    |          | TX-V | 0.3            | 0.3            | 0.5            |



### Radiation Pattern



The data is reference only. Electrical characteristics vary depending on environment or measurement condition.

TAIYO YUDEN reserves the right to make change to the Date at any time without notice.

Before making final selection, please check product specification

manufacturer: TAIYO YUDEN CO., LTD.

Address:Kyobashi East Bldg., 2-7-19, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan

# 2.4 / 5GHz Multilayer Monopole Antenna (for W-LAN)

Date: Sep/01/2011

## AH 104N2450D1 (5GHz band)

### Shapes

L= 10.0 ± 0.3 mm  
W= 4.0 ± 0.3 mm  
T= 1.0 ± 0.3 mm

### Feature

- \* Wide Band
- \* High Performance



Efficiency : -1.6dB ( 69%)  
Peak Gain : 2.4dBi

Actual data

@5250MHz

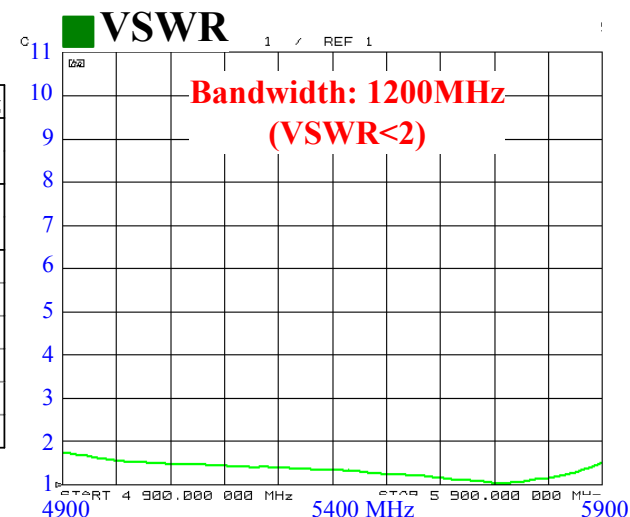


\*on Taiyo Yuden's Evaluation Board  
( 54 x 12 mm )

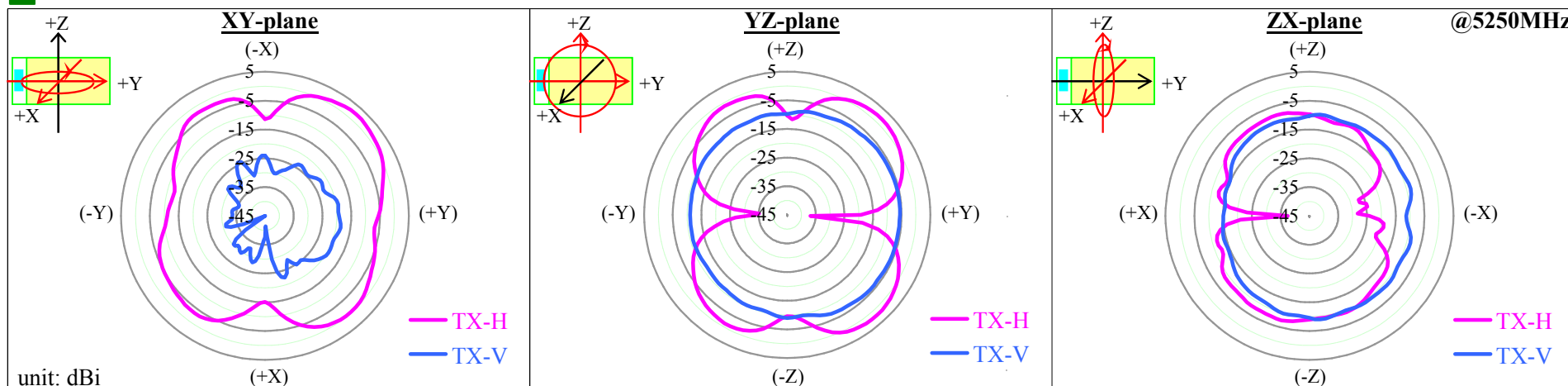
\*Element-GND Distance : 1.5 mm

### Electrical Characteristics

|                    |          |      | 4900MHz        | 5250MHz        | 5900MHz        |
|--------------------|----------|------|----------------|----------------|----------------|
| Efficiency [dB]    |          |      | -2.0<br>( 64%) | -1.6<br>( 69%) | -2.0<br>( 64%) |
| Peak gain [dBi]    |          |      | 2.2            | 2.4            | 2.4            |
| Average gain [dBi] | XY-plane | TX-H | -3.2           | -3.1           | -3.2           |
|                    |          | TX-V | -25.4          | -24.6          | -22.7          |
|                    | YZ-plane | TX-H | -3.0           | -2.6           | -3.0           |
|                    |          | TX-V | -7.7           | -8.2           | -8.8           |
|                    | ZX-plane | TX-H | -10.9          | -10.8          | -12.3          |
|                    |          | TX-V | -12.0          | -10.6          | -6.3           |



### Radiation Pattern



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