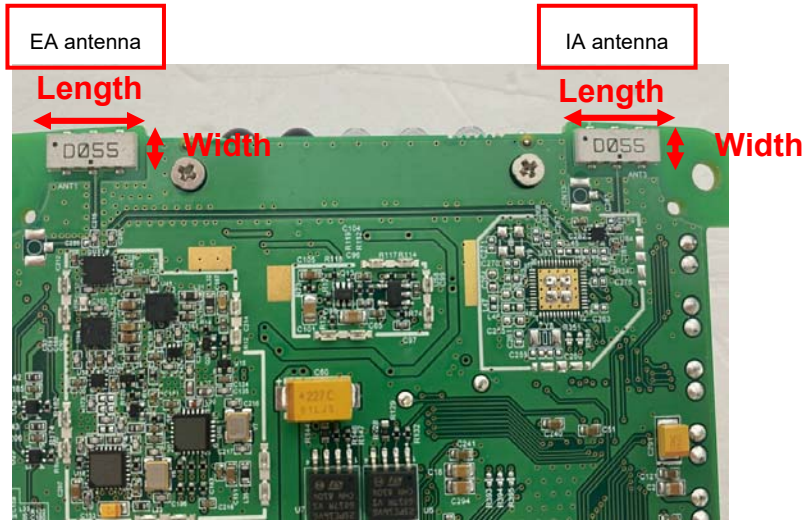


# Antenna Information

Item	Contents	
Antenna Type	Multilayer monopole antenna	
Antenna peak gain	EA antenna	2 401 MHz ~ 2 480 MHz: 2.10 dB i, 5 736 MHz ~ 5 847 MHz: 2.40 dB i
	IA antenna	2 401 MHz ~ 2 480 MHz: 2.10 dB i, 5 736 MHz ~ 5 847 MHz: 2.40 dB i
Manufacturer / Model name	TAIYO YUDEN / AH104N2450D1	
Address of manufacturer	Kyobashi East Bldg., 2-7-19, Kyobashi, Chuo-ku, Tokyo 104-0031, Japan	
Test Laboratory	TAIYO YUDEN	
Antenna Length	1.0 cm	
Antenna Width	0.4 cm	



## 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 @2450MHz  
 Average Gain : 0.3dBi (ZX plane-Vertical polarization)

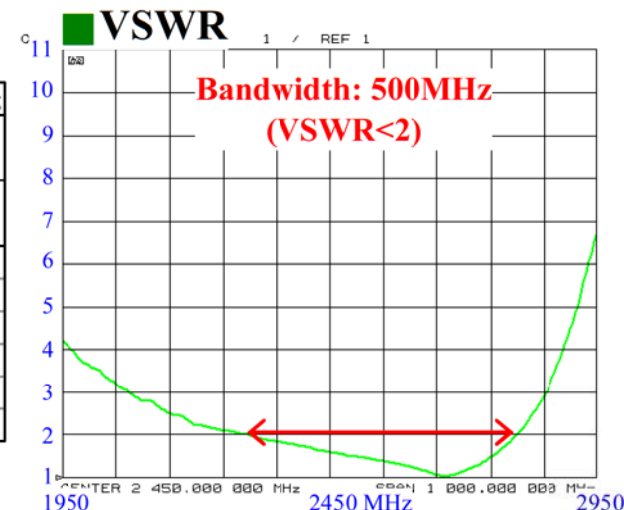


\*on Taiyo Yuden's Evaluation Board (54 x 12 mm)

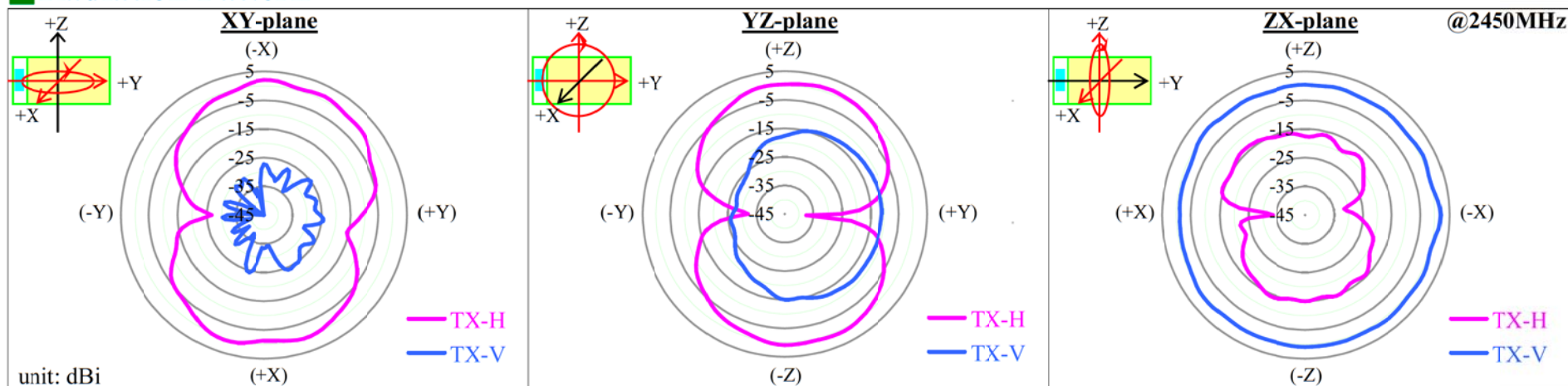
\*Element-GND Distance : 1.5 mm

### Electrical Characteristics

		2400MHz	2450MHz	2500MHz	
Efficiency [dB]		-1.4 (72%)	-1.3 (73%)	-1.2 (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

## 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



**Actual data**

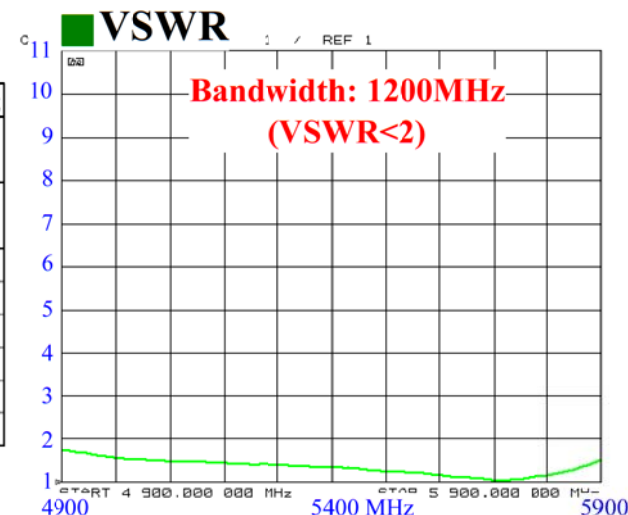
**Efficiency : -1.6dB ( 69%)**  
**Peak Gain : 2.4dBi**      @5250MHz



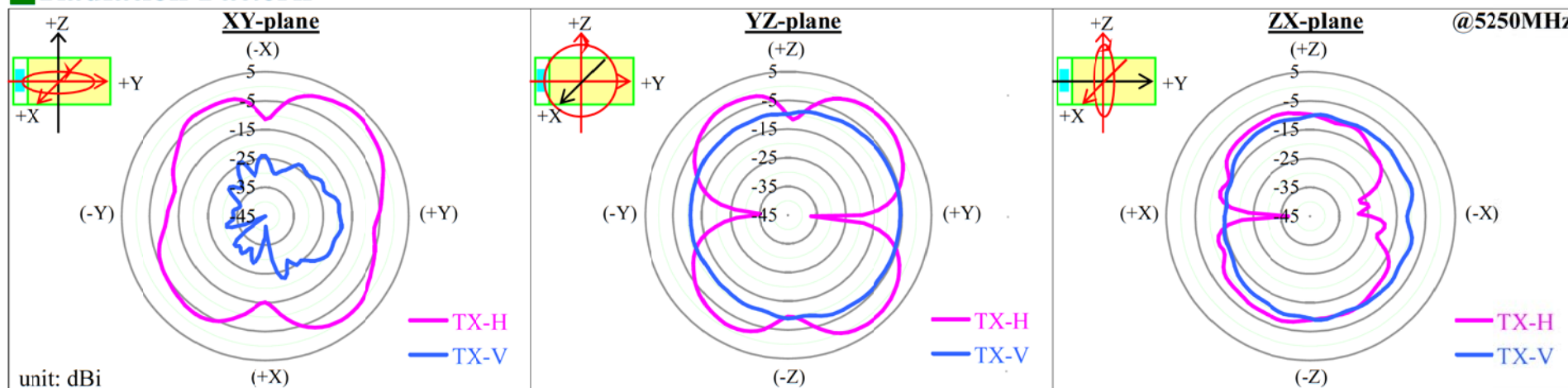
\*on Taiyo Yuden's Evaluation Board ( 54 x 12 mm )  
 \*Element-GND Distance : 1.5 mm

### Electrical Characteristics

			4900MHz	5250MHz	5900MHz
Efficiency [dB]			-2.0 ( 64%)	-1.6 ( 69%)	-2.0 ( 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



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