

2.4GHz Multilayer Monopole Antenna (for Bluetooth®, W-LAN)

AH 212M245001



Shapes

$L = 2.0 \pm 0.3 \text{ mm}$
 $W = 1.25 \pm 0.2 \text{ mm}$
 $T = 0.85 \pm 0.2 \text{ mm}$

Feature

- * Ultra Small
- * Low Profile



Actual data

Efficiency : -1.8dB (66%)
Peak Gain : 0.9dBi
Average Gain : -0.9dBi (ZX plane-Vertical polarization)
@2450MHz



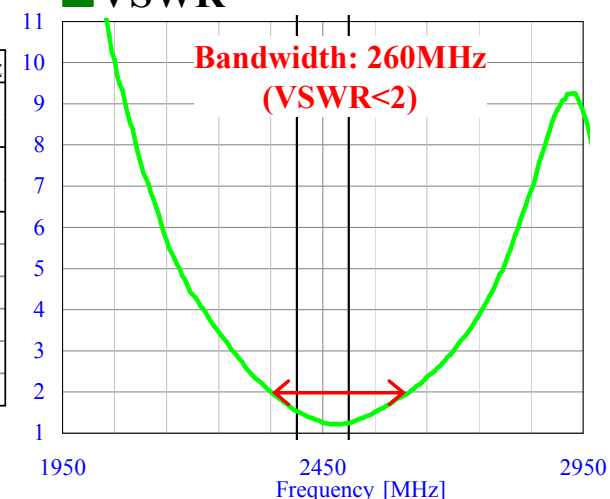
*on Taiyo Yuden's Evaluation Board
(52 x 10 mm)

*Element-GND Distance : 4.0 mm

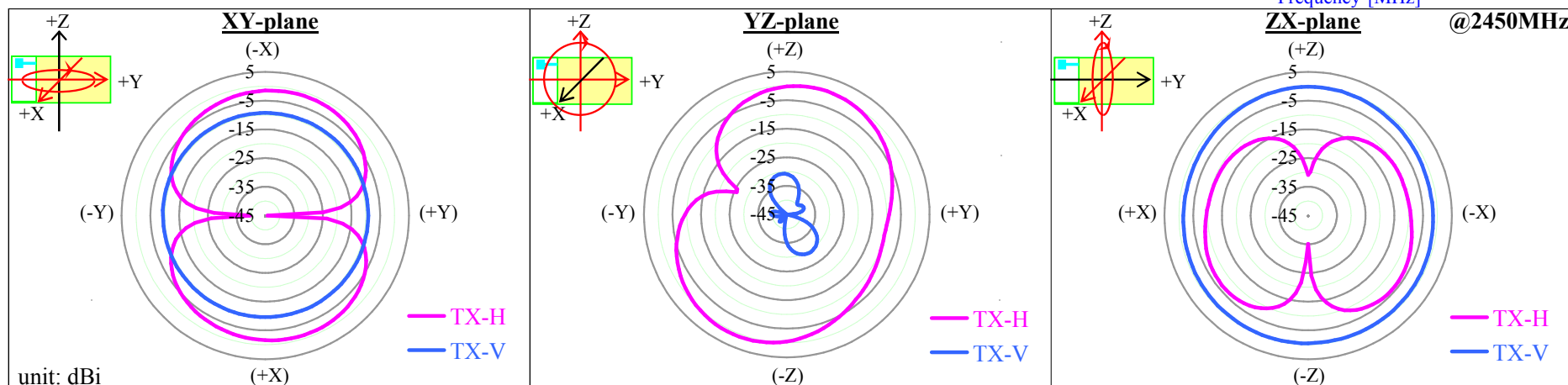
Electrical Characteristics

			2400MHz	2450MHz	2500MHz
Efficiency [dB]			-1.9 (64%)	-1.8 (66%)	-1.7 (68%)
Peak gain [dBi]			0.9	0.9	1.3
Average gain [dBi]	XY-plane	TX-H	-4.1	-4.0	-3.9
		TX-V	-9.8	-9.4	-8.7
	YZ-plane	TX-H	-3.0	-3.0	-2.9
		TX-V	-35.7	-35.1	-34.9
	ZX-plane	TX-H	-10.1	-9.8	-9.3
		TX-V	-1.0	-0.9	-0.9

VSWR



Radiation Pattern



Confidential

TAIYO YUDEN

Date: Feb/25/2010