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

**Date: Sep/01/2011** 

## AH 212M245001

### Shapes

L= 2.0  $\stackrel{+}{\phantom{}_{\sim}} \stackrel{0.3}{\phantom{}_{\sim}}$  mm W= 1.25  $\stackrel{+}{\phantom{}_{\sim}} 0.2$  mm T= 0.85  $\stackrel{+}{\phantom{}_{\sim}} 0.2$  mm

#### **Feature**

- \* Ultra Small
- \* Low Profile



Actual data

Efficiency: -1.8dB (66%) Peak Gain: 0.9dBi

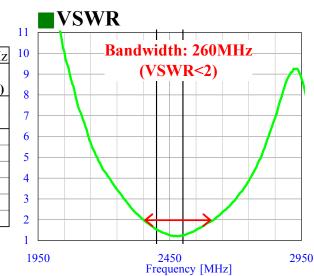
9dBi @2450MHz

Average Gain: -0.9dBi (ZX plane-Vertical polarization)

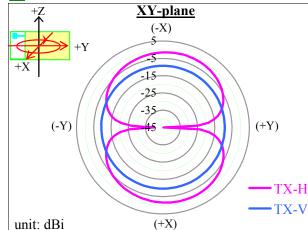


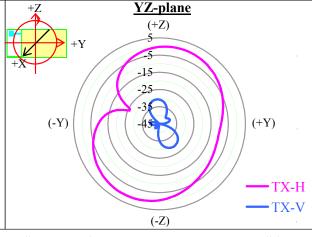
\*on Taiyo Yuden's Evaluation Board (  $52 \times 10 \text{ mm}$  )

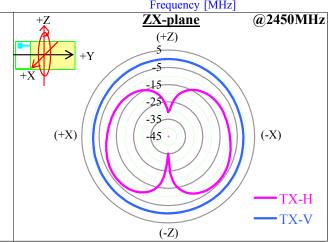
<b>■</b> Electrical Characteristics					
			2400MHz	2450MHz	2500MHz
Efficiency [dB]			-1.9	-1.8	-1.7
_			(64%)	(66%)	(68%)
Peak gain [dBi]			0.9	0.9	1.3
Average	XY-plane	ТХ-Н	-4.1	-4.0	-3.9
gain		TX-V	-9.8	-9.4	-8.7
[dBi]	YZ-plane	ТХ-Н	-3.0	-3.0	-2.9
		TX-V	-35.7	-35.1	-34.9
	ZX-plane	ТХ-Н	-10.1	-9.8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



#### ■ 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

<sup>\*</sup>Element-GND Distance: 4.0 mm