

10 x 4 mm Dualband monopole Antenna

TSA3NA4L2G45NS0D1T (AH 104N2450D1-T)

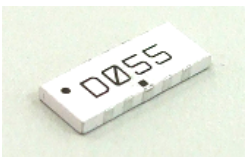
for 2.4GHz / 5GHz

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

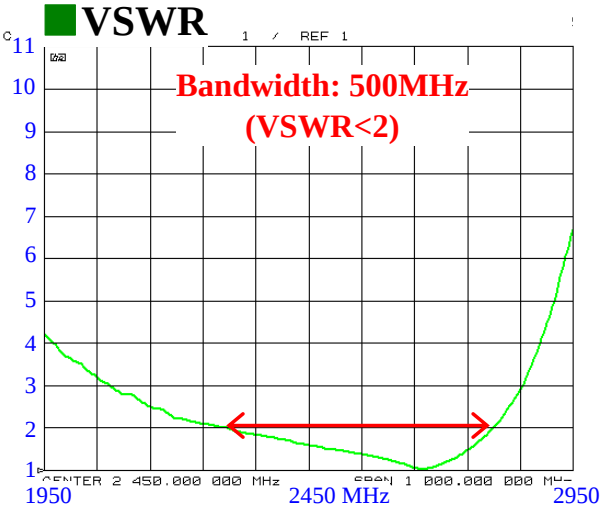
Efficiency : -1.3dB (73%)
Peak Gain : 2.1dBi @2450MHz
Average Gain : 0.3dBi (ZX plane-Vertical polarization)



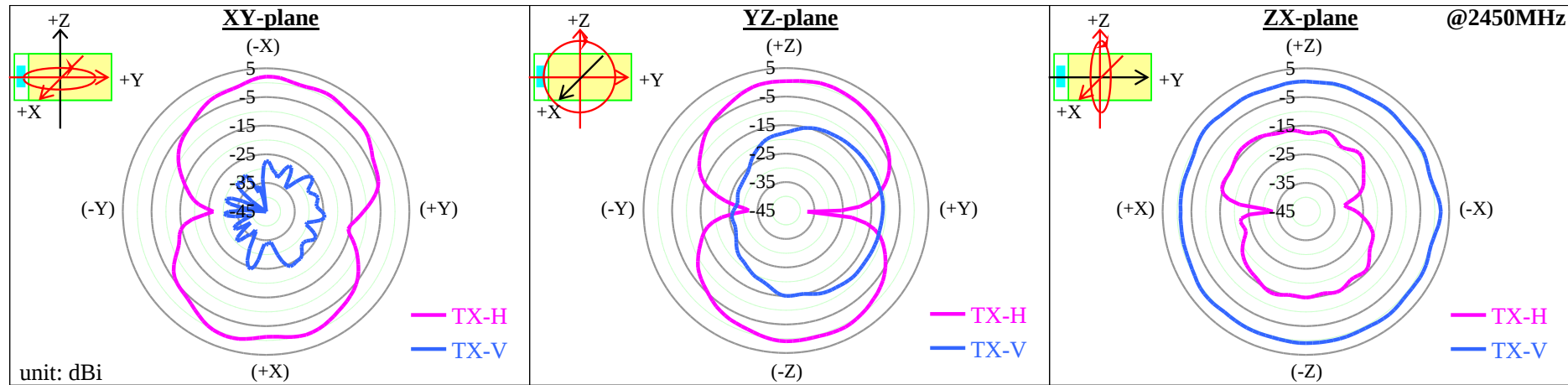
*on Taiyo Yuden’s Evaluation Board
(54 x 12 mm)
*Element-GND Distance : 1.5 mm

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



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■ 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

