

1.5GHz Helical Monopole Antenna (for GPS)

Date: Sep/01/2011

AF 816M157502

Shapes

L= 8.0 ± 0.2 mm
W= 1.6 ± 0.2 mm
T= 1.6 ± 0.2 mm



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

*Element-GND Distance : 5.5 mm

Feature

- * Small
- * High Performance
- * Linear Polarization



Actual data

Efficiency : -1.8dB (65%)
Peak Gain : 2.8dBi @1575MHz
-0.2dBic (circular polarization)
Average Gain : -0.6dBi (ZX plane-Vertical polarization)
-3.4dBic (ZX plane-RHCP)

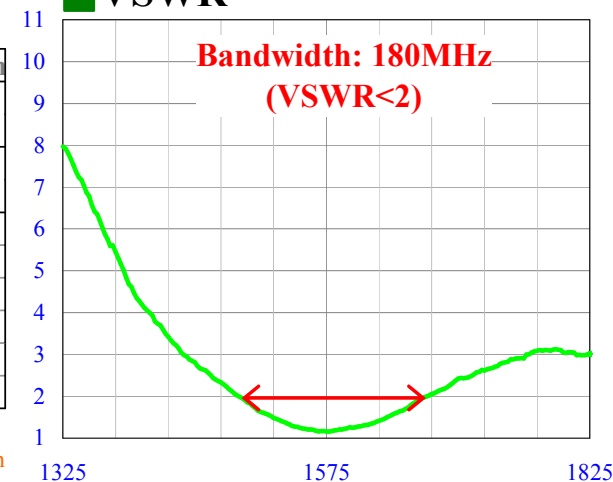
Electrical Characteristics

@1575MHz		linear polarization		circular polarization	
Efficiency [dB]		-1.8 (65%)			
Peak gain		2.8 [dBi]		-0.2 [dBic]	
Average gain	XY-plane	TX-H	-3.6	LC	-5.7
		TX-V	-10.3	RC	-5.8
	YZ-plane	TX-H	-2.6	LC	-5.5
		TX-V	-34.2	RC	-5.6
	ZX-plane	TX-H	-11.9	LC	-3.2
		TX-V	-0.6	RC	-3.4

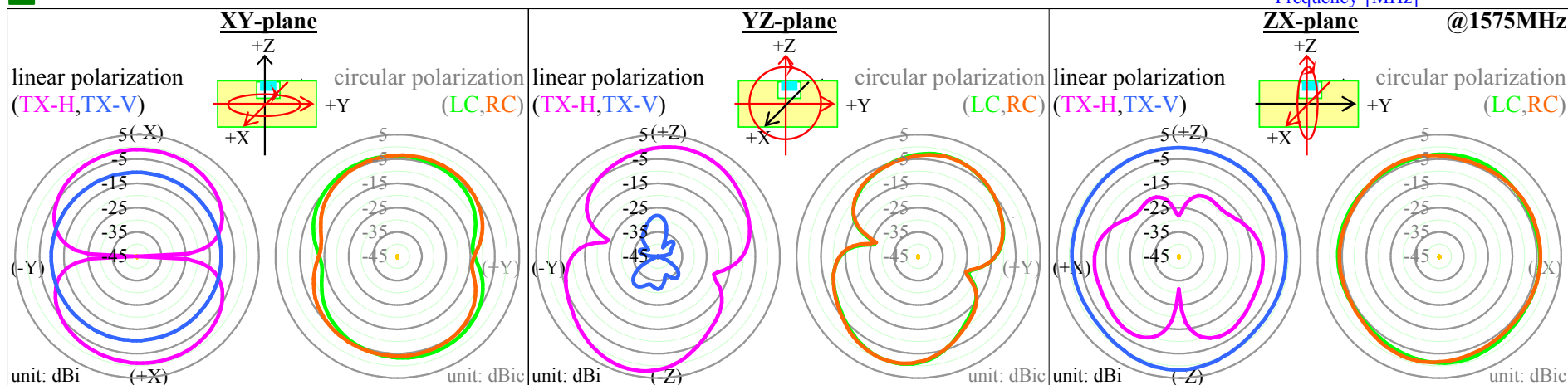
TX-H=Horizontal polarization
TX-V=Vertical polarization

LC=Left-handed circular polarization
RC=Right-handed circular polarization

VSWR



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