

DATA SHEET

WIRELESS COMPONENTS

PCB type antenna
ANTX100P120BUNVS3



FEATURES & BENEFITS

- The smallest PCB antenna in the market
- Miniature design allows users to save required space
- Double-side adhesive tape makes it easy to install in device
- Ranges of types of connector and cable provide a flexible
- Halogen free and RoHS compliant

APPLICATIONS

- Tablet / Desktop PC
- Internet TV / STB / Game console / Camera
- WiFi network devices (IEEE 802.11b/g/n)
- Bluetooth / ZigBee devices
- Car Infotainment
- Smart meter
- Lighting control
- POS terminal
- Wireless Industrial Control

ORDERING INFORMATION - GLOBAL PART NUMBER , PHYCOMP CTC & I2NC

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

YAGEO BRAND ordering code

GLOBAL PART NUMBER (PREFERRED)

ANT X I00 P I20 B UNVS 3

(1) (2) (3) (4) (5) (6) (7)

(1) FAMILY

ANT= Antenna Products

(2) CONNECTOR & CABLE LENGTH (MM)

X=I-Pex

I00=100mm

(3) ANTENNA TYPE

P=PCB

(4) SERIAL NUMBER

I20=SERIAL NUMBER I20

(5) PACKAGE TYPE

B=Buck

(6) WORKING FREQUENCY

UNVS=700-6000MHz

(7) CABLE TYPE

3 = 1.13mm diameter Mini-Coaxial Cable

SPECIFICATIONS

Table 1

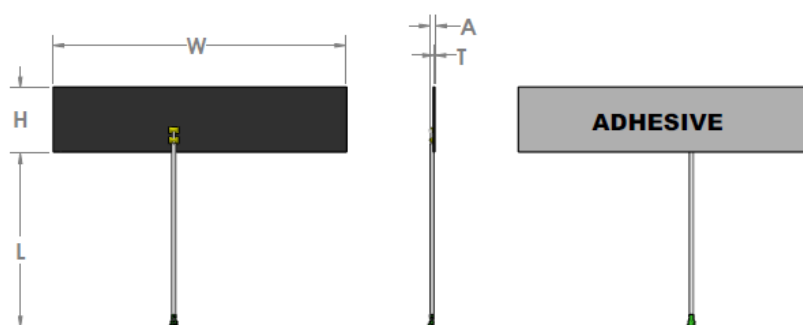
DESCRIPTION	VALUE
Working Frequency	700 ~ 6000 MHz
VSWR	4:1 max
Peak Gain	4.14 dBi
Polarization	Linear
Impedance	50 Ω Nominal
Operating Temperature	- 40 °C to 85 °C
Dimension	90mm x 20mm x 0.55mm
Radio Connector	I-PEX (20278-112R-13)
Cable Diameter / Length / Color	1.13mm / 100mm / Black
Mounting	Adhesive Tape (HF-DS)

DIMENSIONS

Table 2 Mechanical Dimension

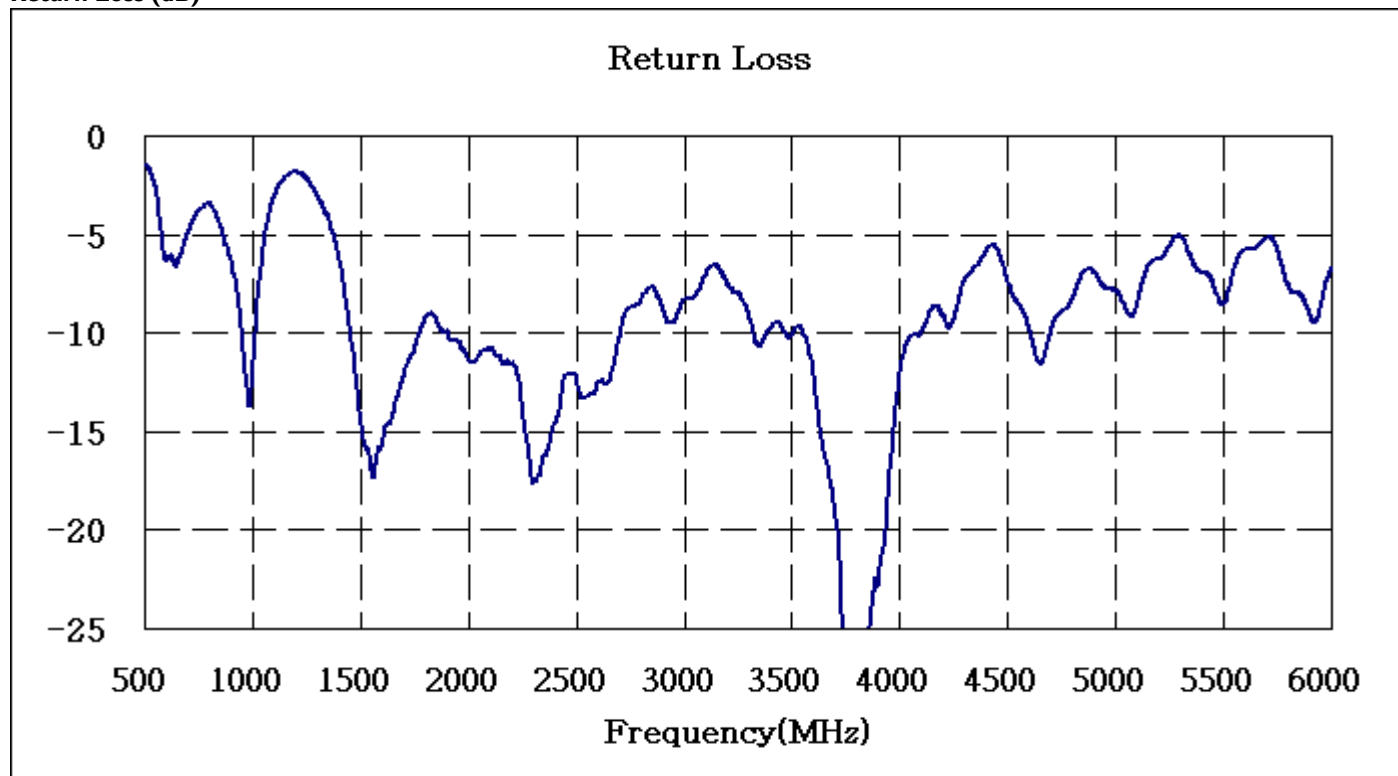
DIMENSION	VALUE
L (mm)	100 $\pm$ 3.00
W (mm)	90 $\pm$ 0.30
H (mm)	20 $\pm$ 0.30
T (mm)	0.55 $\pm$ 0.15
A (mm)	2.30 Max

OUTLINES

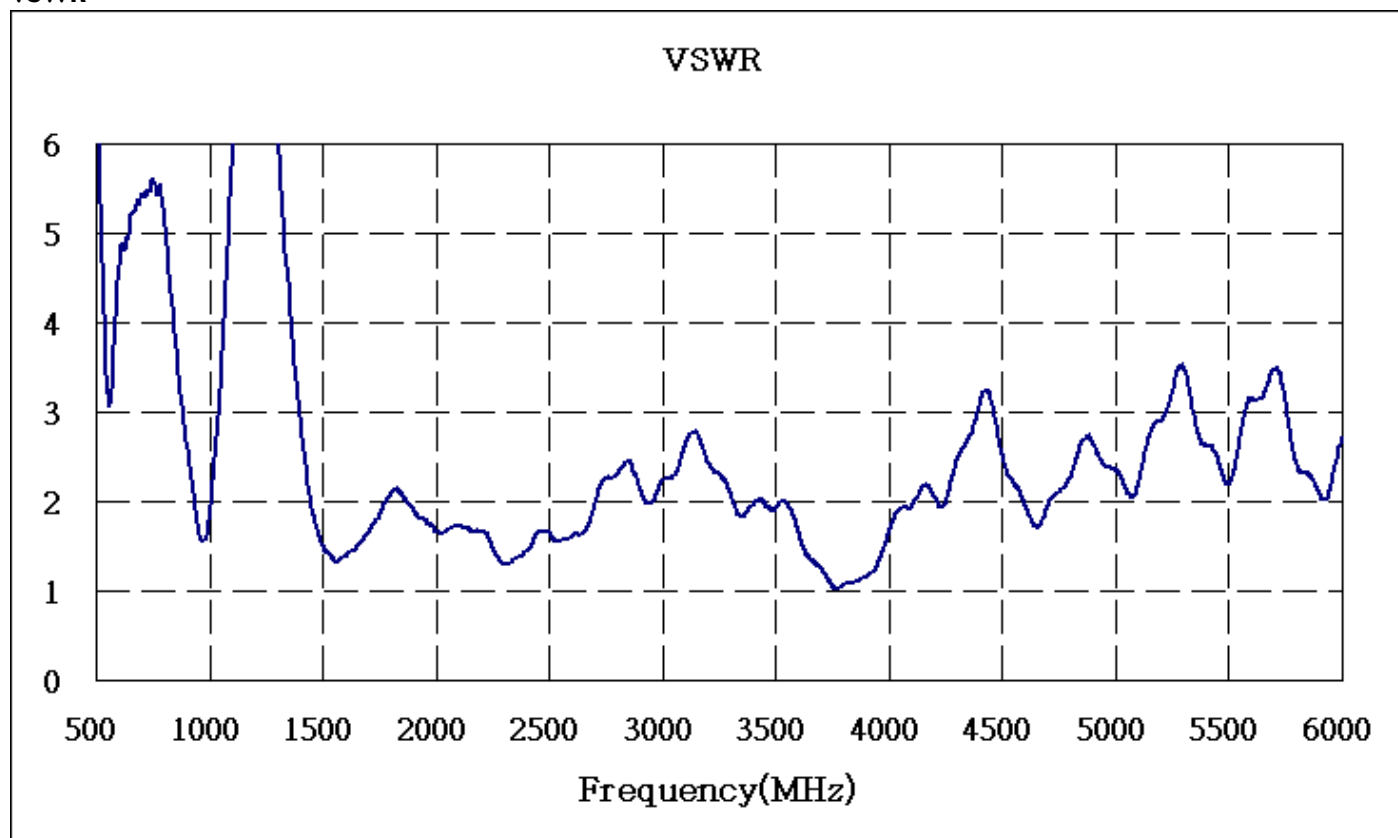


RETURN LOSS & VSWR

Return Loss (dB)



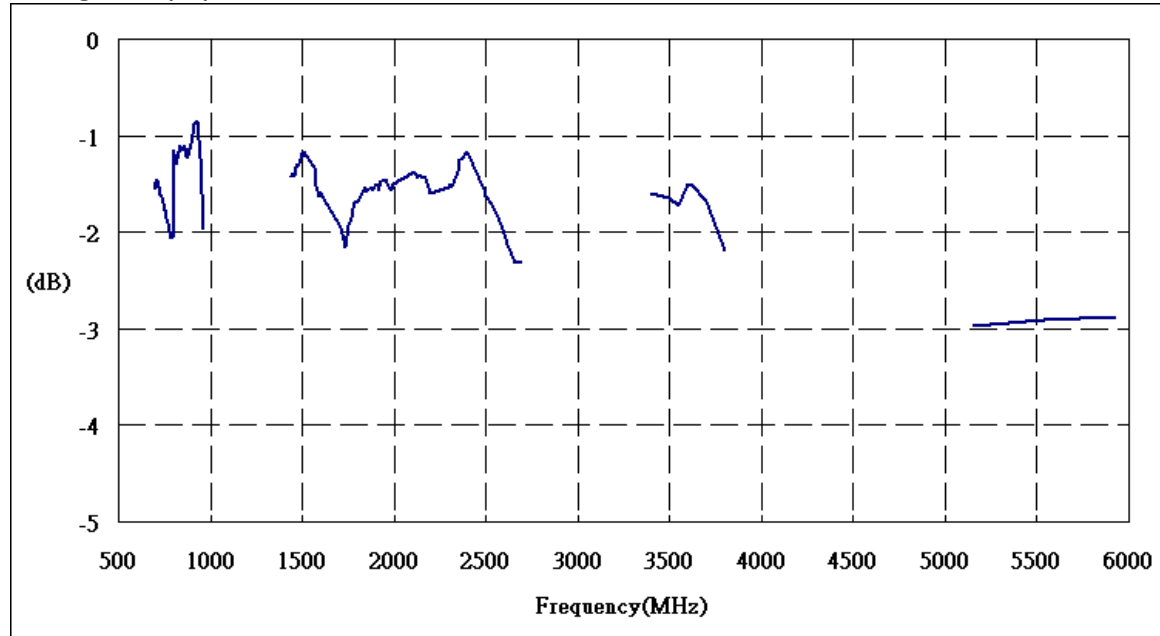
VSWR



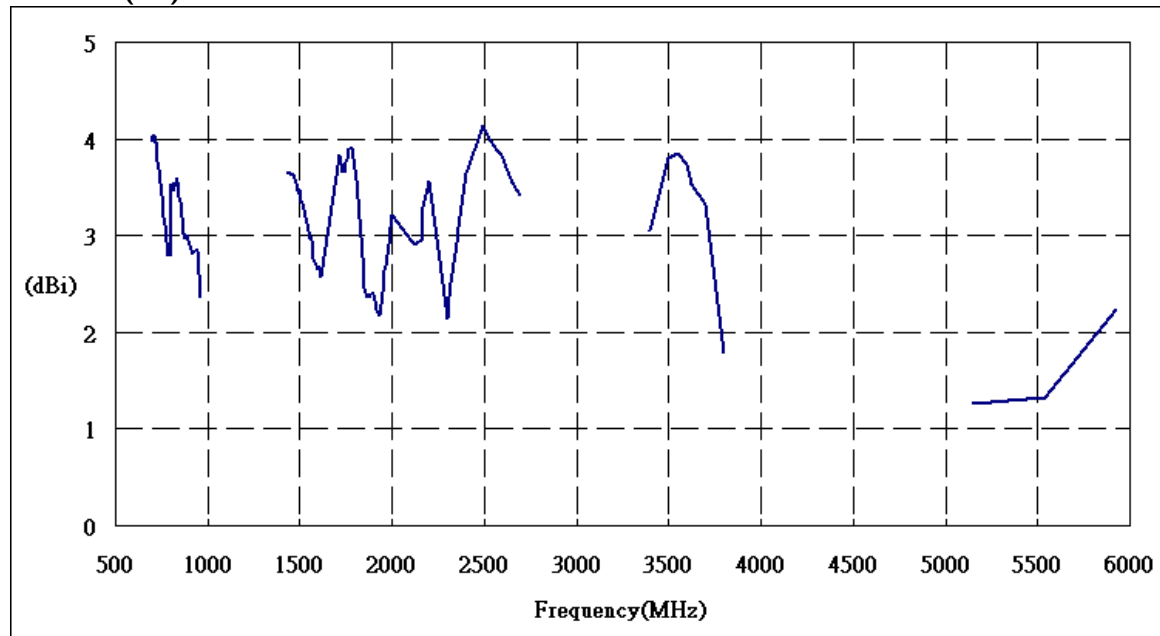
ANTENNA GAIN & EFFICIENCY

Frequency(MHz)	698~960	1390~1435	1575.42	1710~1990	1755~2170	2400~2450	2500~2700	3400~3600	4800~6000
Efficiency(%)	82.22	72.15	70.79	71.29	72.91	76.44	68.75	70.81	51.57
Peak Gain(dBi)	4.04	3.65	2.76	3.83	2.93	4.14	4.09	3.74	2.24

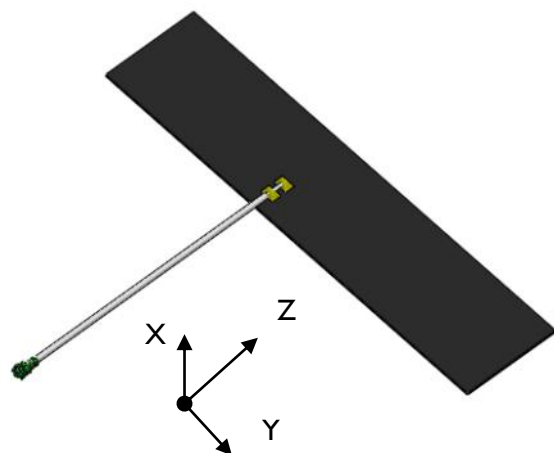
Average Gain(dB)



Peak Gain(dBi)



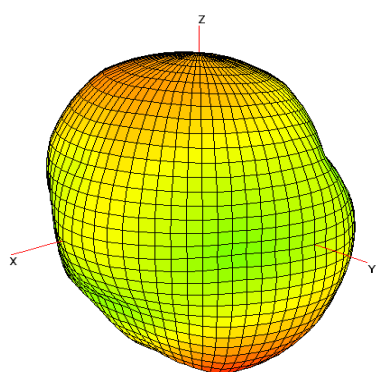
ANTENNA RADIATION PATTERNS



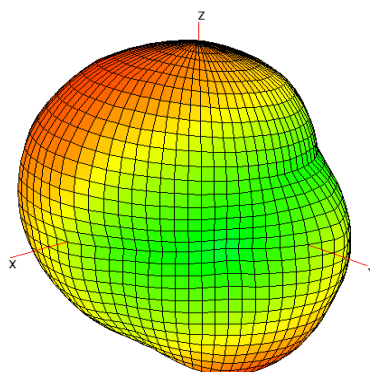
Scale: 4 dBi / div

Max : 4 dBi

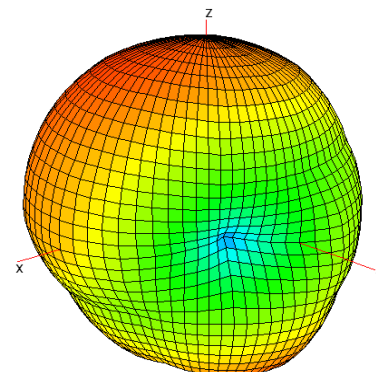
Min : -28 dBi



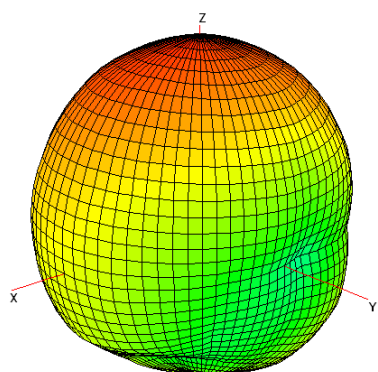
751MHz



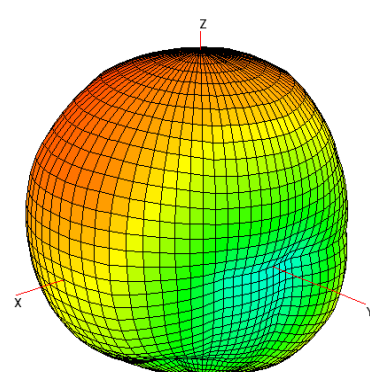
849MHz



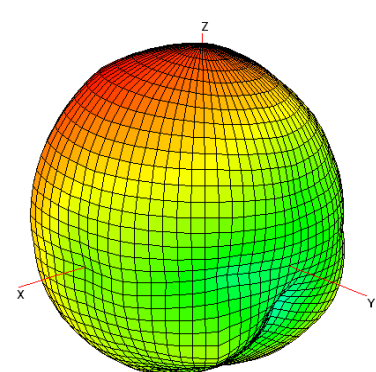
925MHz



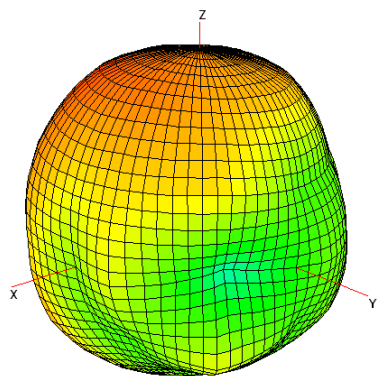
1427MHz



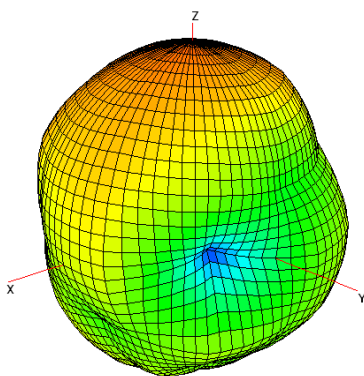
1575MHz



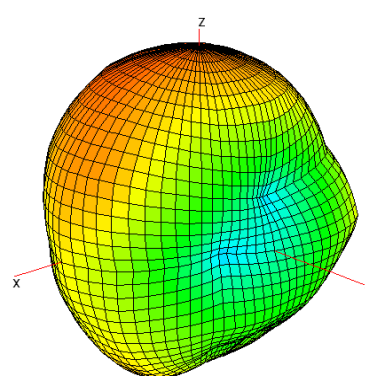
1750MHz



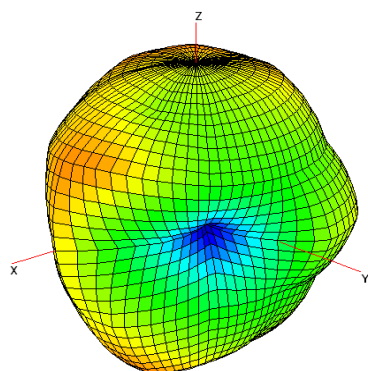
1850MHz



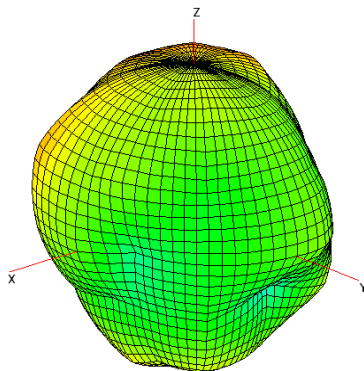
1950MHz



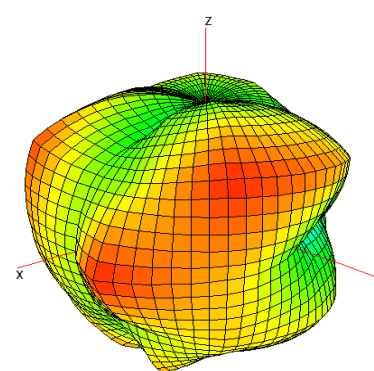
2110MHz



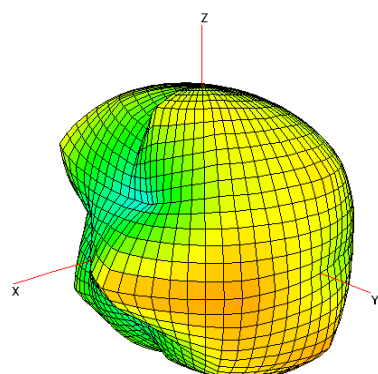
2400MHz



2600MHz



3600MHz



5537MHz

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Jan. 18, 2019	-	- New data sheet for PCB type antenna,