

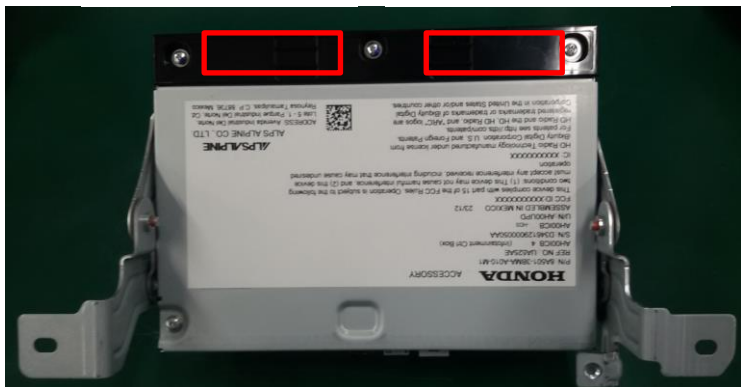
AH00ICB 4 Antenna Specification

Component placement

【Top View】

2G/5G_Wifi ANT

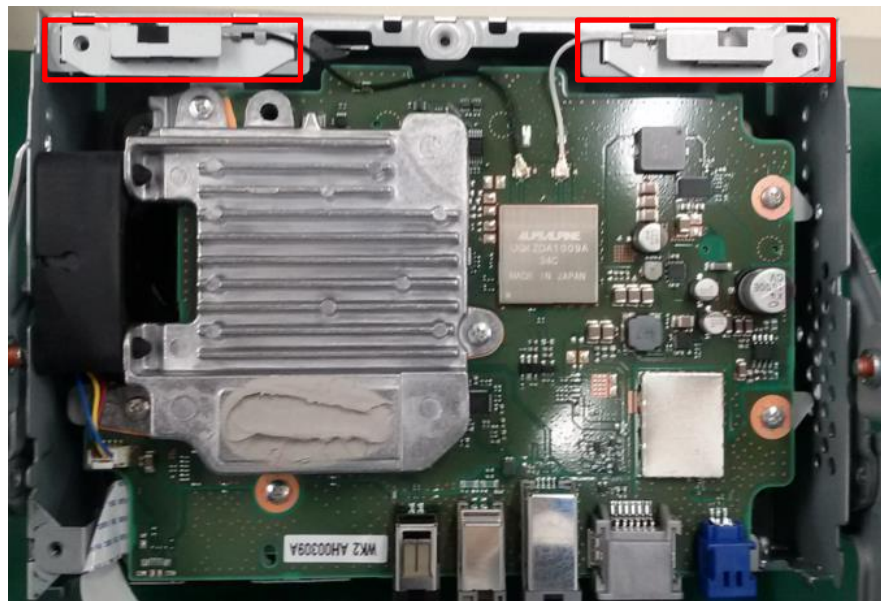
BT+5G_Wifi ANT



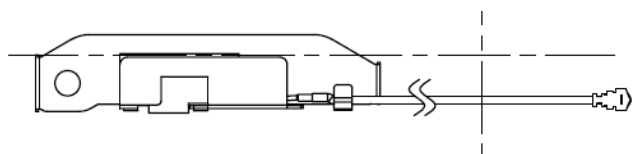
【Product without TOP COVER】

2G/5G_Wifi ANT

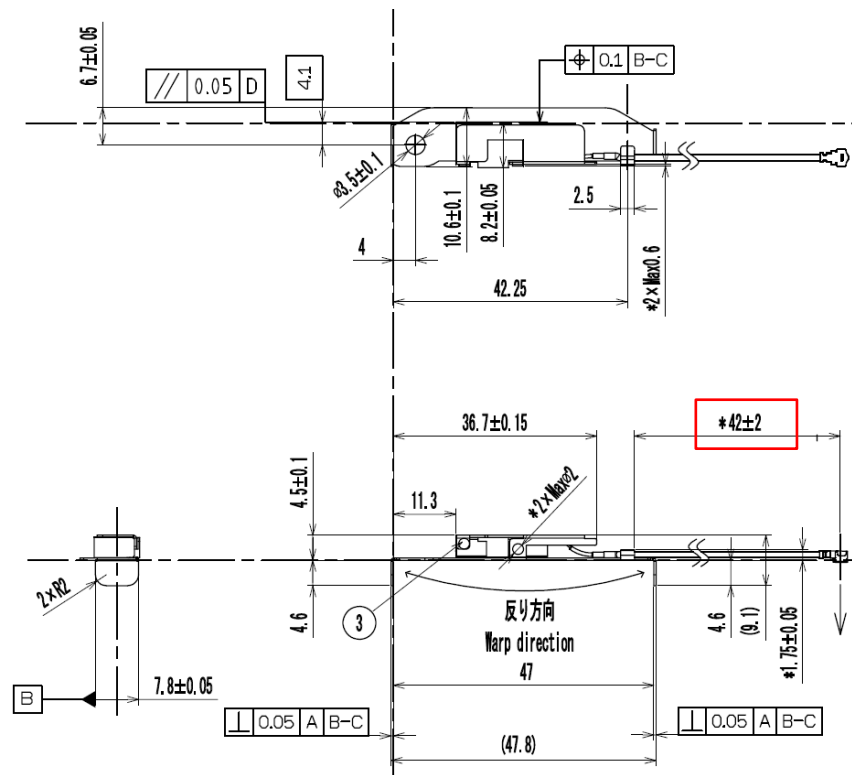
BT+5G_Wifi ANT



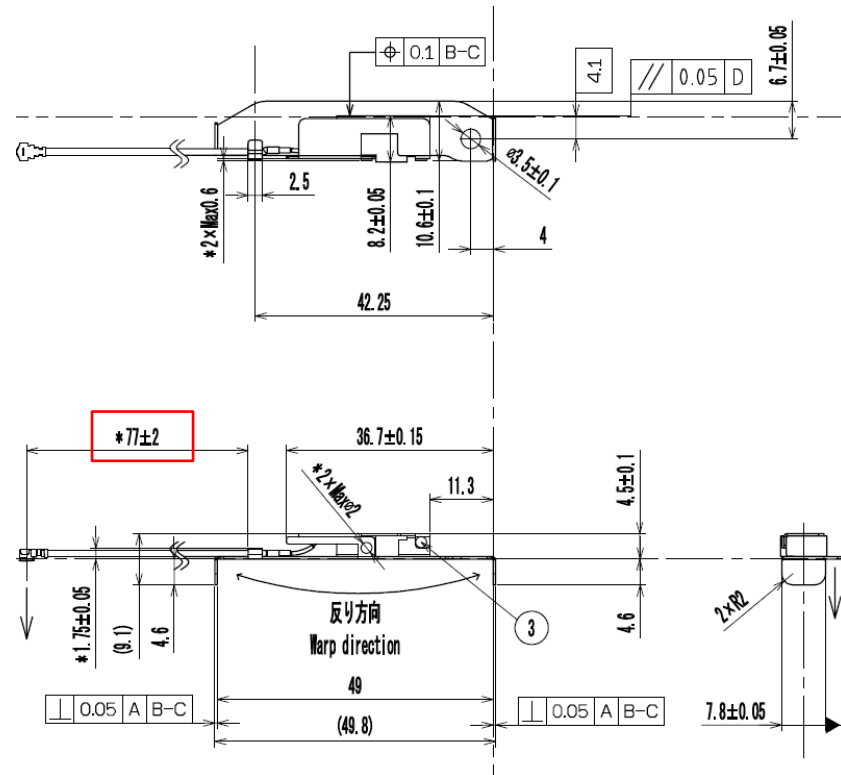
【ANT type: PIFA, Conn.type: U.FL】
PIFA=planar inverted-F antenna



BT+5G_Wifi ANT



2G/5G_Wifi ANT



Specification

Antenna Gain specification

ANT	Freq.	Gain (Peak)	Impedance	Comment
BT+5G_Wifi (Chain2)	2.4GHz-2.5GHz 5.15GHz-5.875GHz	-0.2dBi +2.29dBi	50 Ohm	Gain(Peak)
2G/5G_Wifi (Chain1)	2.4GHz-2.5GHz 5.15GHz-5.875GHz	-0.78dBi +2.71dBi	50 Ohm	Gain(Peak)

Antenna Supplier

Manufacturing Company : NISSEI ELECTRIC CO., LTD.

-Headquarters

1509 Okubo-cho, Nishi-ku, Hamamatsu-shi,
Shizuoka-ken 432-8006 Japan

TEL. +81-53-485-4705 FAX. +81-53-485-5444

<https://www.nissei-el.co.jp/company/group/>

Test Software: HFSS

Date of test: August 26, 2021

Representative
Test engineer: NISSEI ELECTRIC CO.,LTD / Engineering Dept.
Shinpei Matagawa

Radiation Pattern

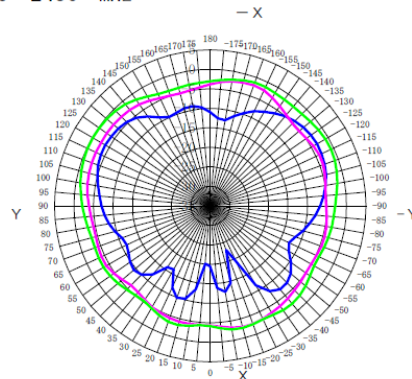


H [dBi]

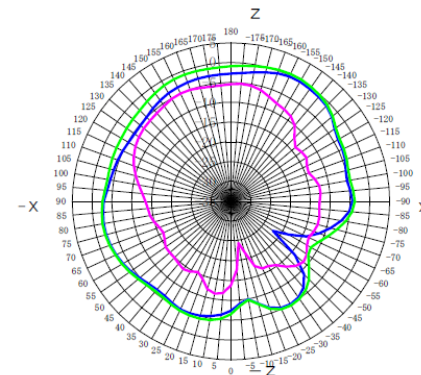
V [dBi]

H+V [dBi]

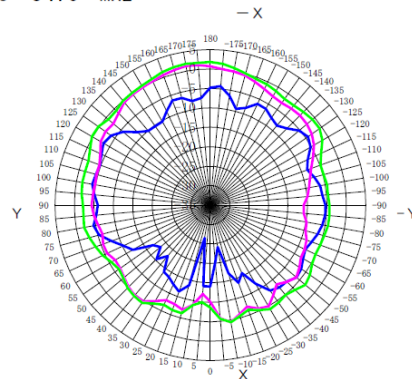
XY Plane 2450 MHz



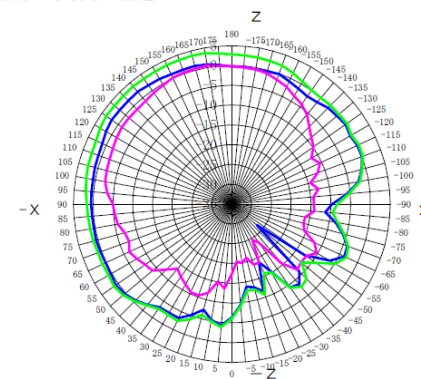
ZX Plane 2450 MHz



XY Plane 5470 MHz

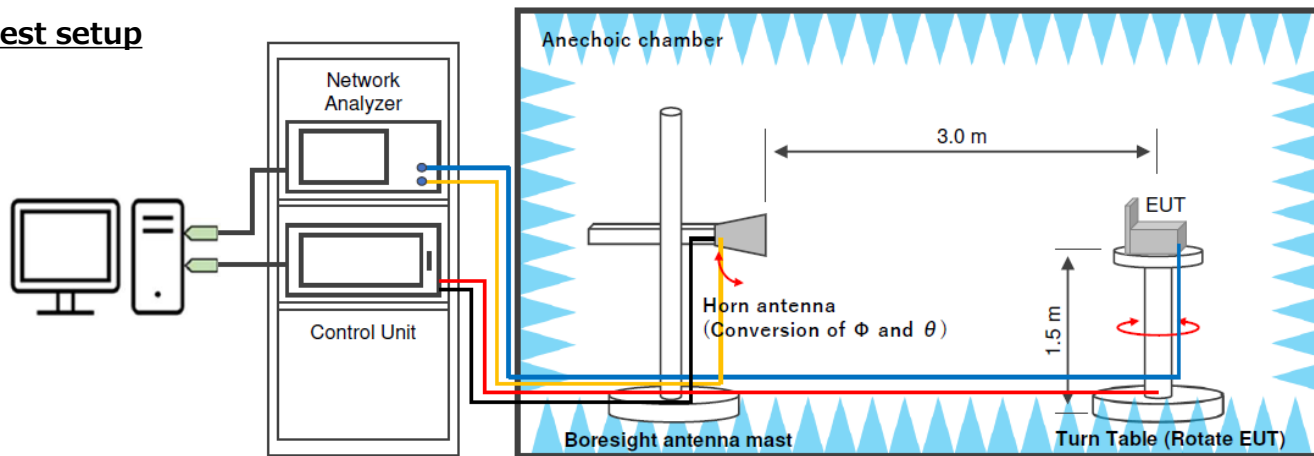


ZX Plane 5470 MHz



Test setup

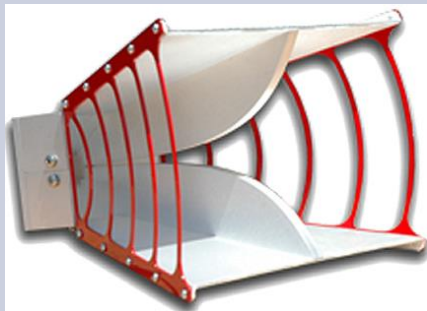
Test setup



Equipment List

Device	Type/Model	Serial	Manufacturer
Anechoic chamber	-	602477-0	NISSEI ELECTRIC CO., LTD.
Turn Table	-	602477-0	NISSEI ELECTRIC CO., LTD.
Control Unit	-	602544-1	NISSEI ELECTRIC CO., LTD.
Boresight antenna mast	-	602477-0	NISSEI ELECTRIC CO., LTD.
Horn antenna	3115	9107-3687	ETS-Lindgren
Horn antenna 2GHz for Cal.	3160-03	1096	ETS-Lindgren
Port Cable 0.1GHz~18.5GHz	MCCA011	-	NISSEI ELECTRIC CO., LTD.
Ferrite Cable 2.5m - 0.1GHZ~18.5GHz	X10511A	-	NISSEI ELECTRIC CO., LTD.
Network Analyzer	N5230C	MY48100176	Keysight

Horn Antenna - 3155 Double-Ridged Guide Antenna



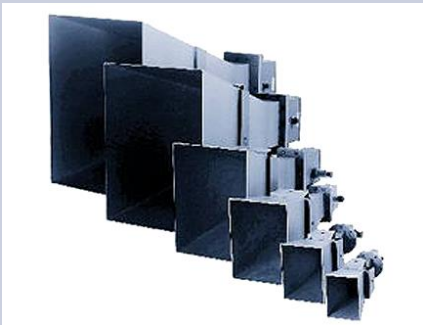
Key future

- Range 750 MHz to 18 GHz
- Uniform Gain
- Individually Calibrated
- Low VSWR Continuous Power Handling Capability 300W

Physical specifications

- Height: 15.9 cm (6.26 in)
- Length: 27.9 cm (10.98 in)
- Width: 24.4 cm (9.61 in)
- Weight: 1.8 kg (3.97 lb)

Horn Antenna 2GHz for Cal. - 3160 Pyramidal Standard Gain Antenna



Key future

- Constant Antenna Factor Over Frequency
- Complete with Feed, Waveguide, Mount
- Increased Power Dissipation
- Optimal Beam Width
- Low VSWR

Physical specifications

- Height: 26.65 cm (10.49 in)
- Depth: 64.14 cm (25.25 in)
- Width: 34.65 cm (13.64 in)
- Weight: 4.55 kg (10.03 lb)