



TAOGLAS®

Datasheet

PC165.54.0076A

Part No:
PC165.54.0076A

Description

1*WiFi

Features:

1* WIFI MIMO 2.4GHz/5.8 GHz/7.1GHz

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Introduction



WiFi antenna for Portable Box PC

Specification

Electrical					
Frequency (MHz)	2.4GHz	5.8GHz	Band1-3	Band4	7.1GHz
	2400-2500	4900-5850	5150-5725	5725-5850	5925-7125
Efficiency (%)					
PC165	59.3	47.3	46.5	55.7	56.8
Average Gain (dB)					
PC165	-2.27	-3.25	-3.33	-2.54	-2.45
Peak Gain (dBi)					
PC165	5.34	5.33	4.95	5.33	7.86
Impedance	50 Ω				
Polarization	Linear				
Radiation Pattern	Omni				
Max. input power	10W				

Mechanical	
Dimensions	58.6*13.6*0.75 (w/o cable)
Weight	FR4
Material	I-PEX MFH4L
Connector	76mm
Cable	1.13mm coaxial cable
Environmental	
Waterproof Rating	-40°C to 85°C
Temperature Range	-40°C to 85°C
Humidity	40% to 95%

Test Setup

S11 / VSWR / Return Loss

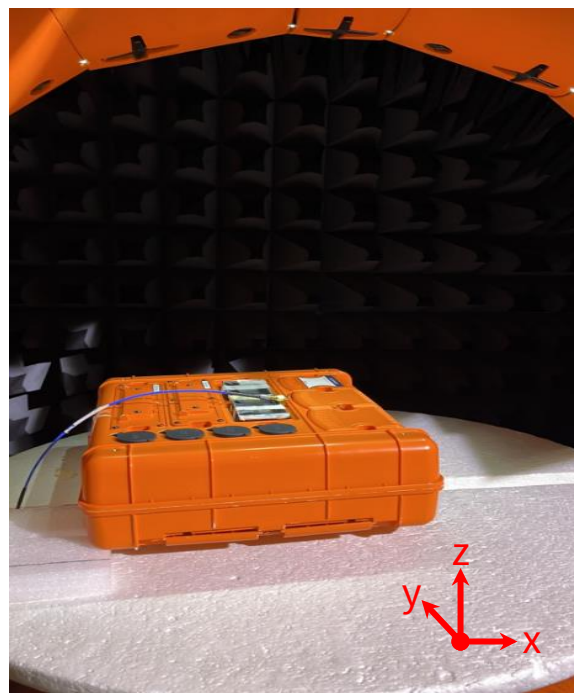
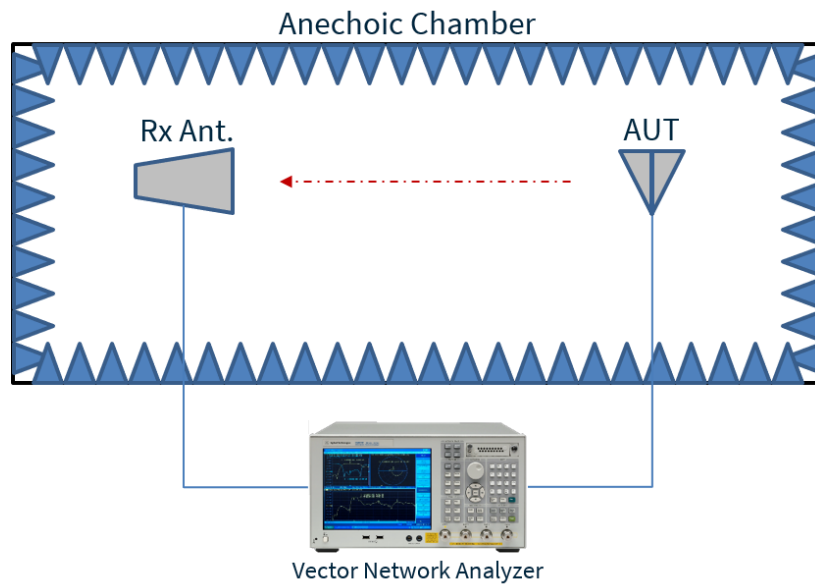
AUT



Vector Network Analyzer

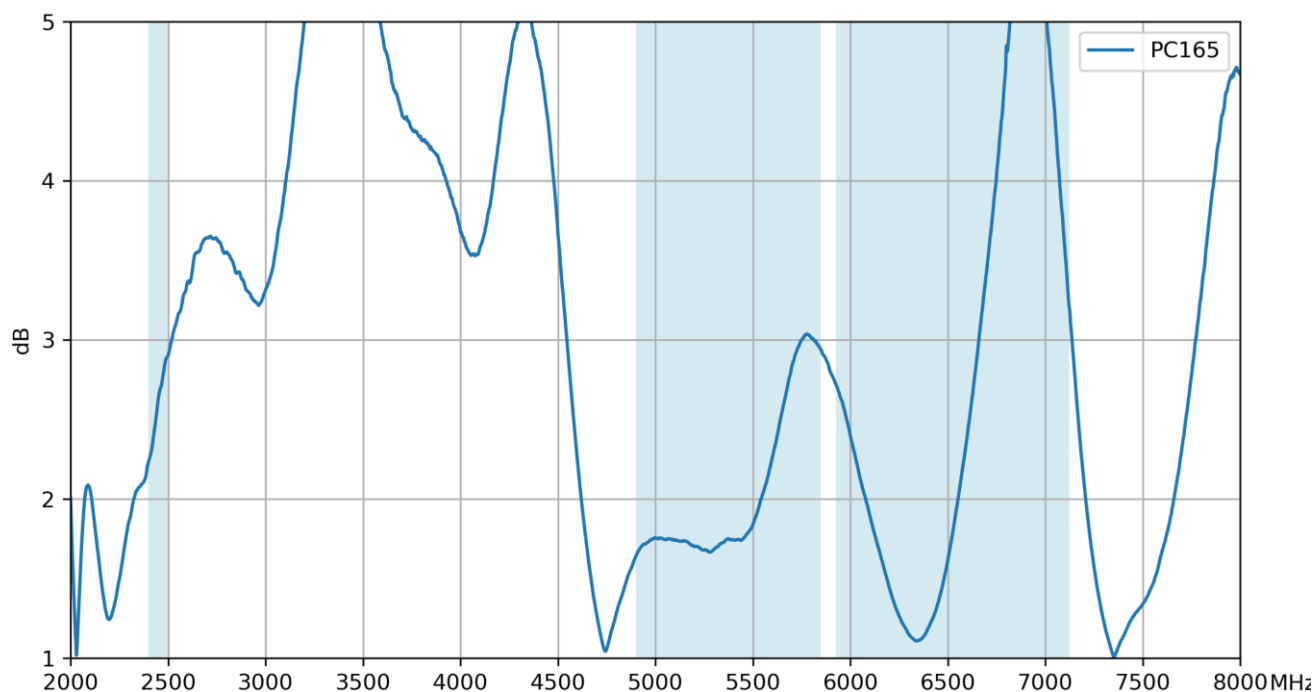


Radiation Performance

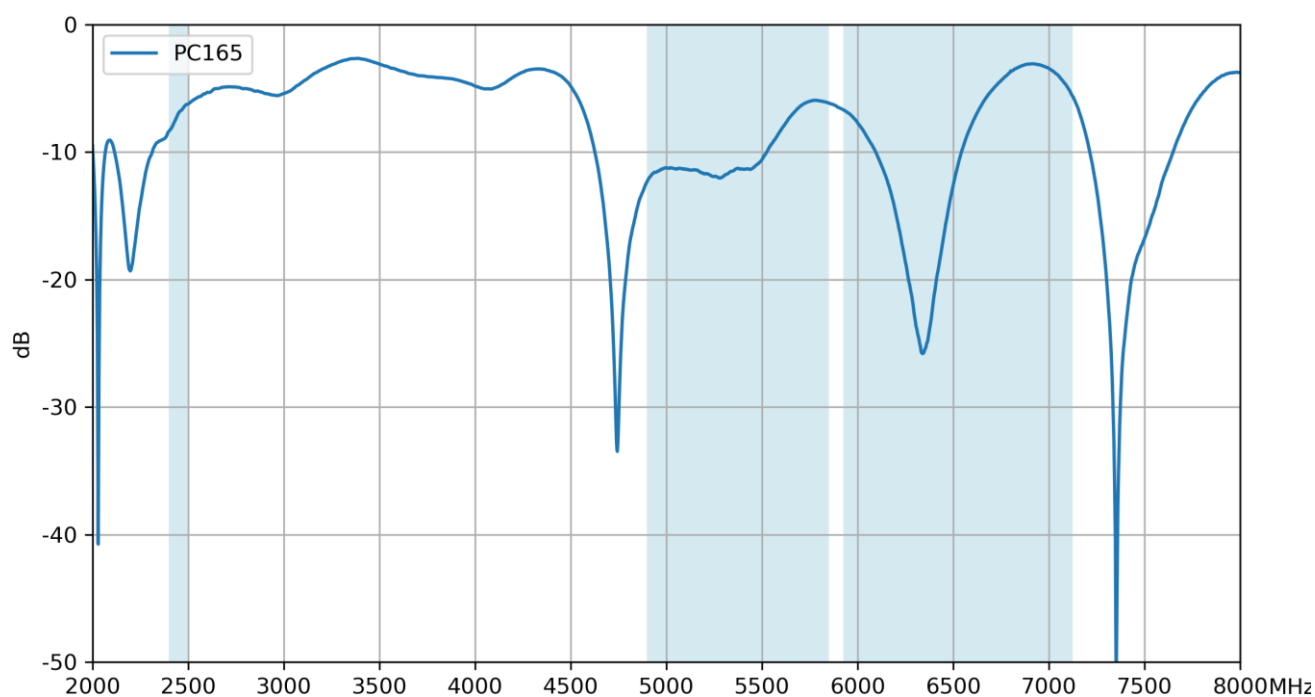


Antenna Characteristics

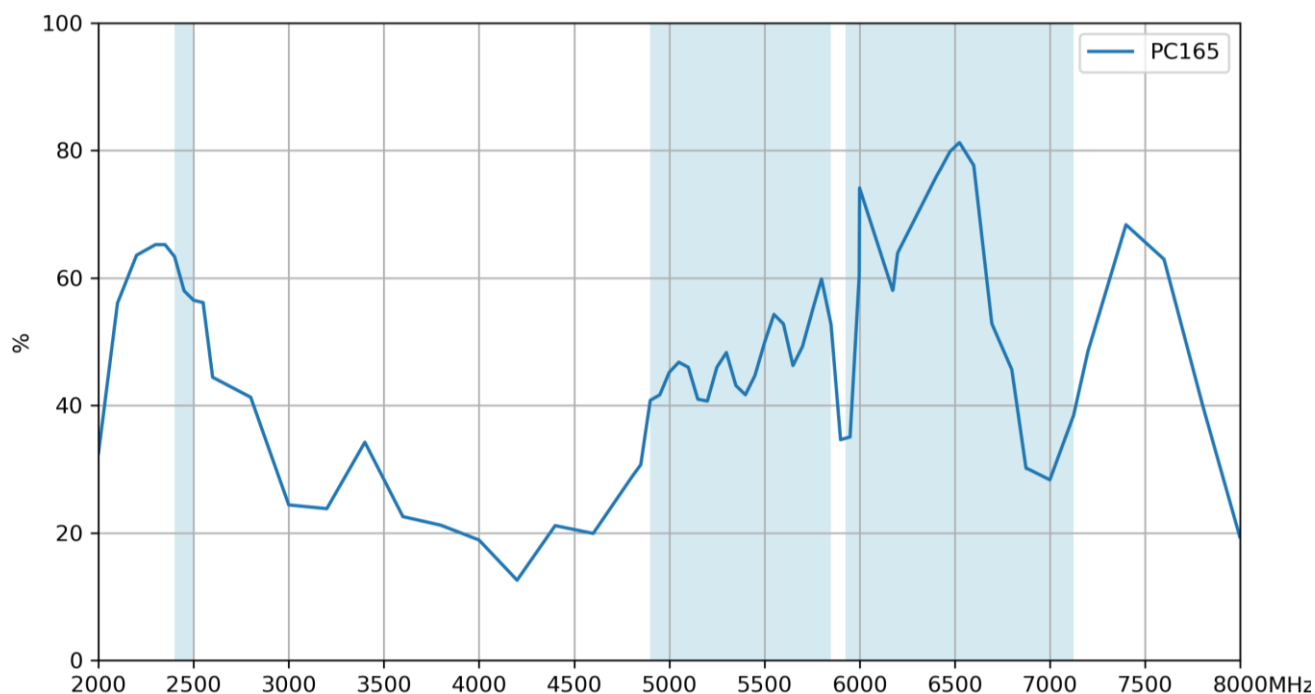
VSWR



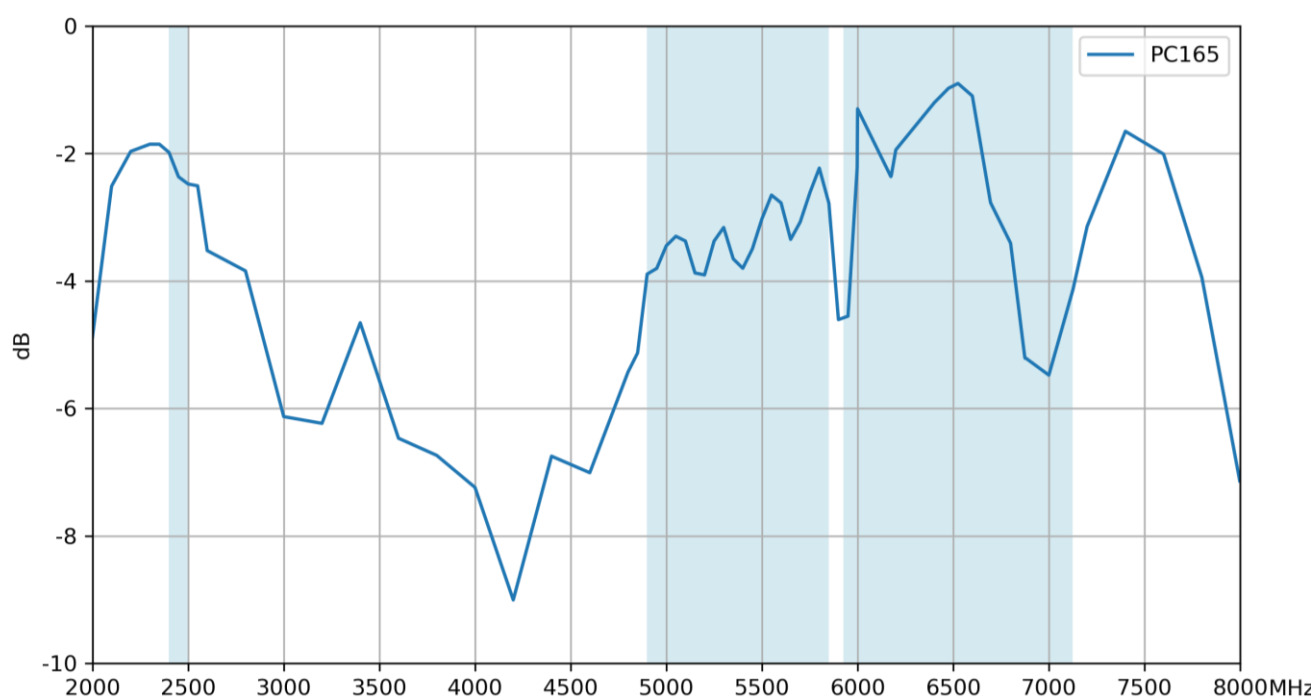
Return Loss



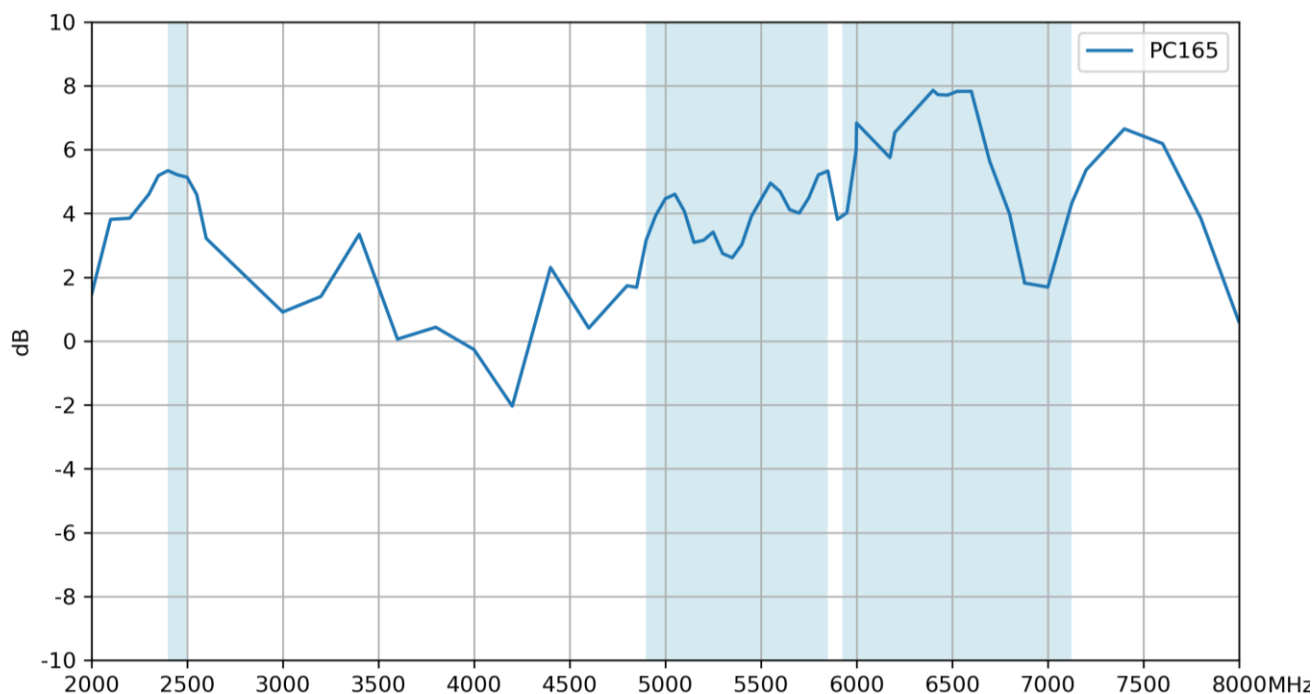
Efficiency



Average Gain



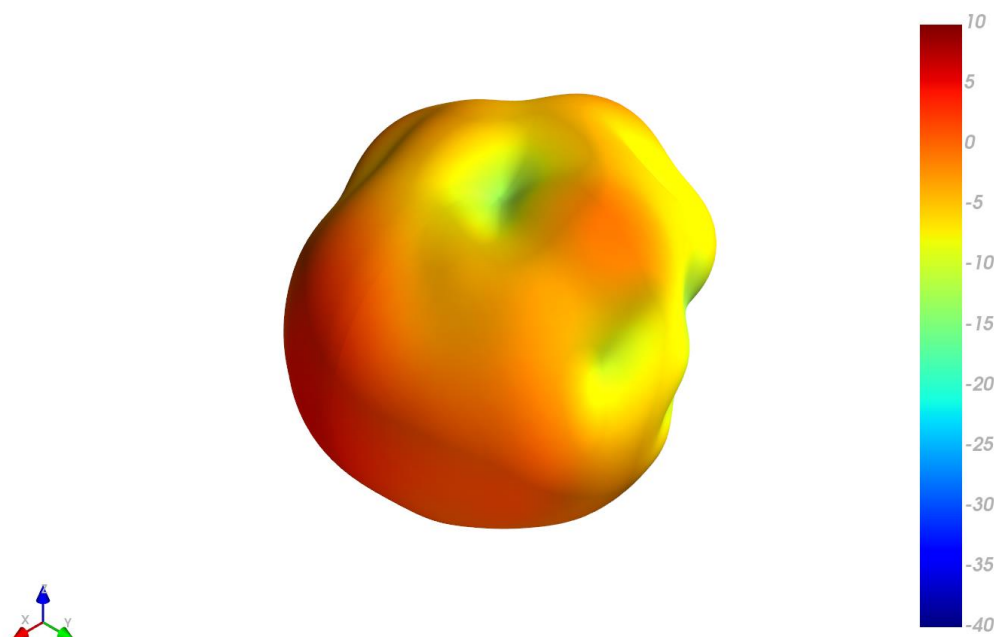
Peak Gain



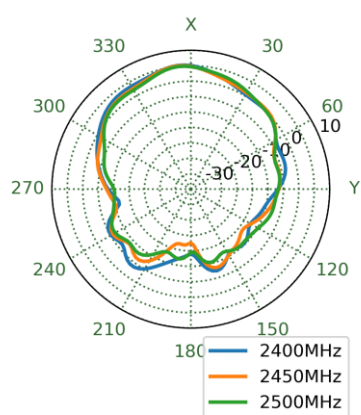
Radiation Patterns

PC165 3D and 2D Radiation Patterns

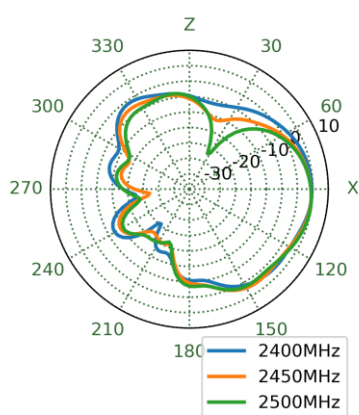
Gain total, 2450MHz



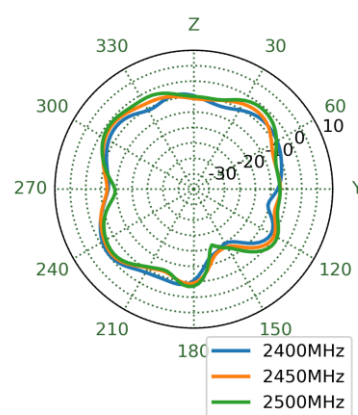
XY Plane



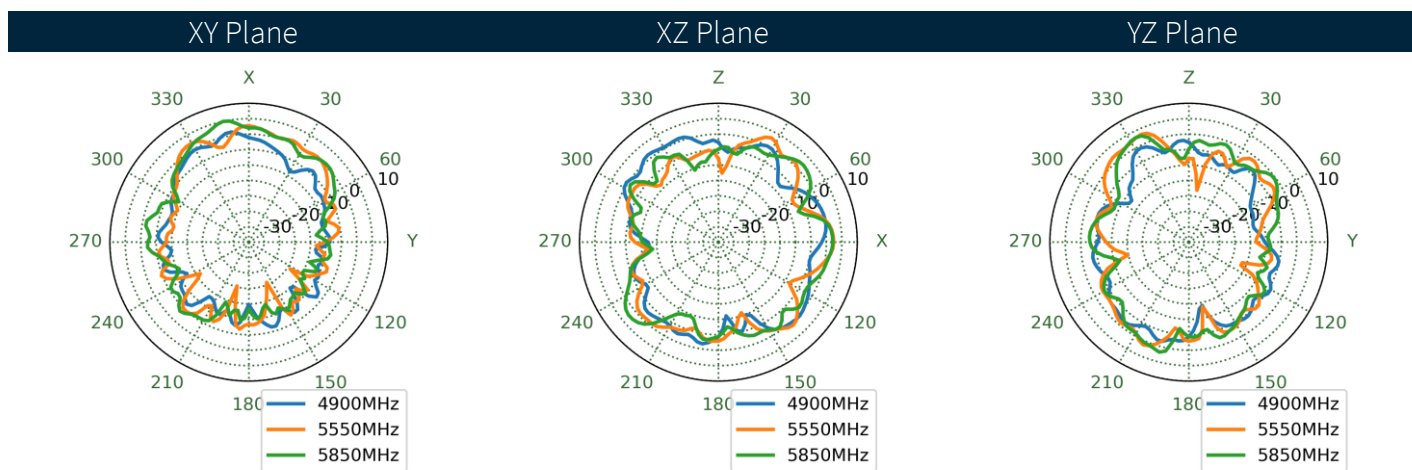
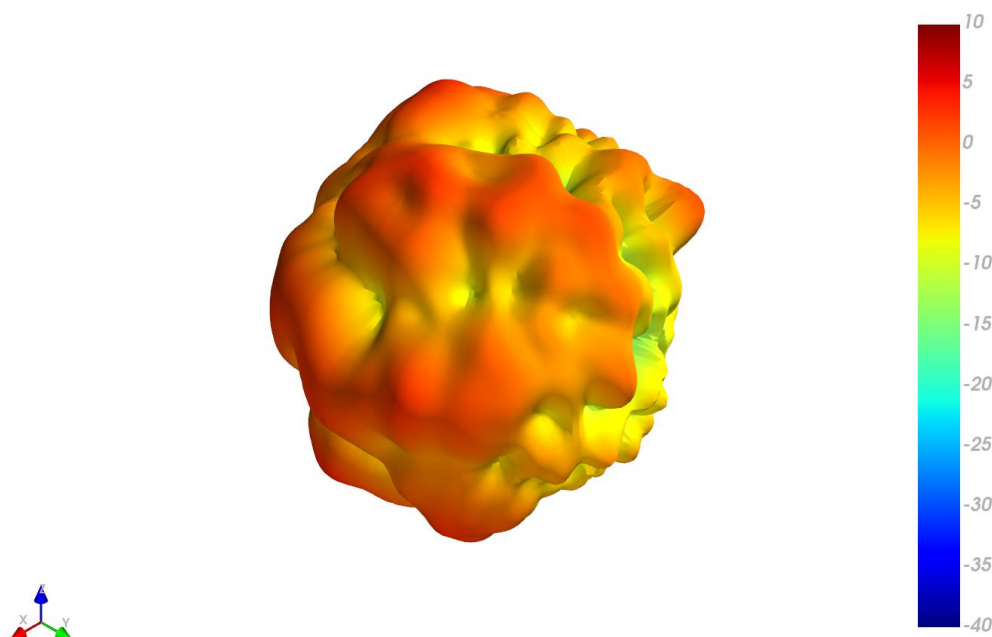
XZ Plane



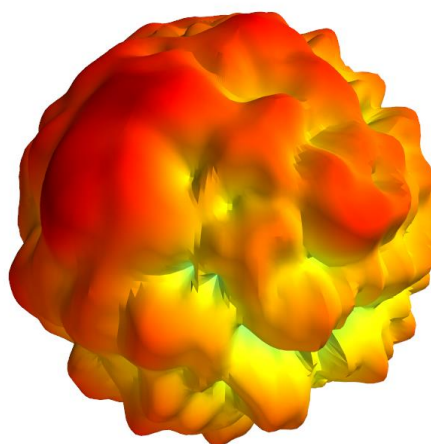
YZ Plane



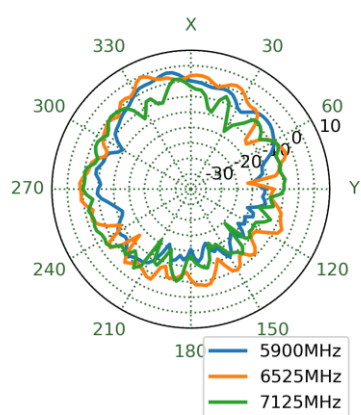
Gain total, 5550MHz



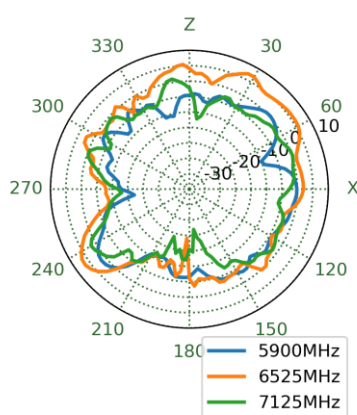
Gain total, 6525MHz



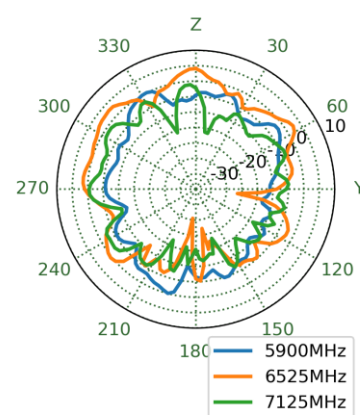
XY Plane



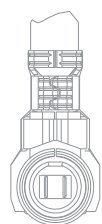
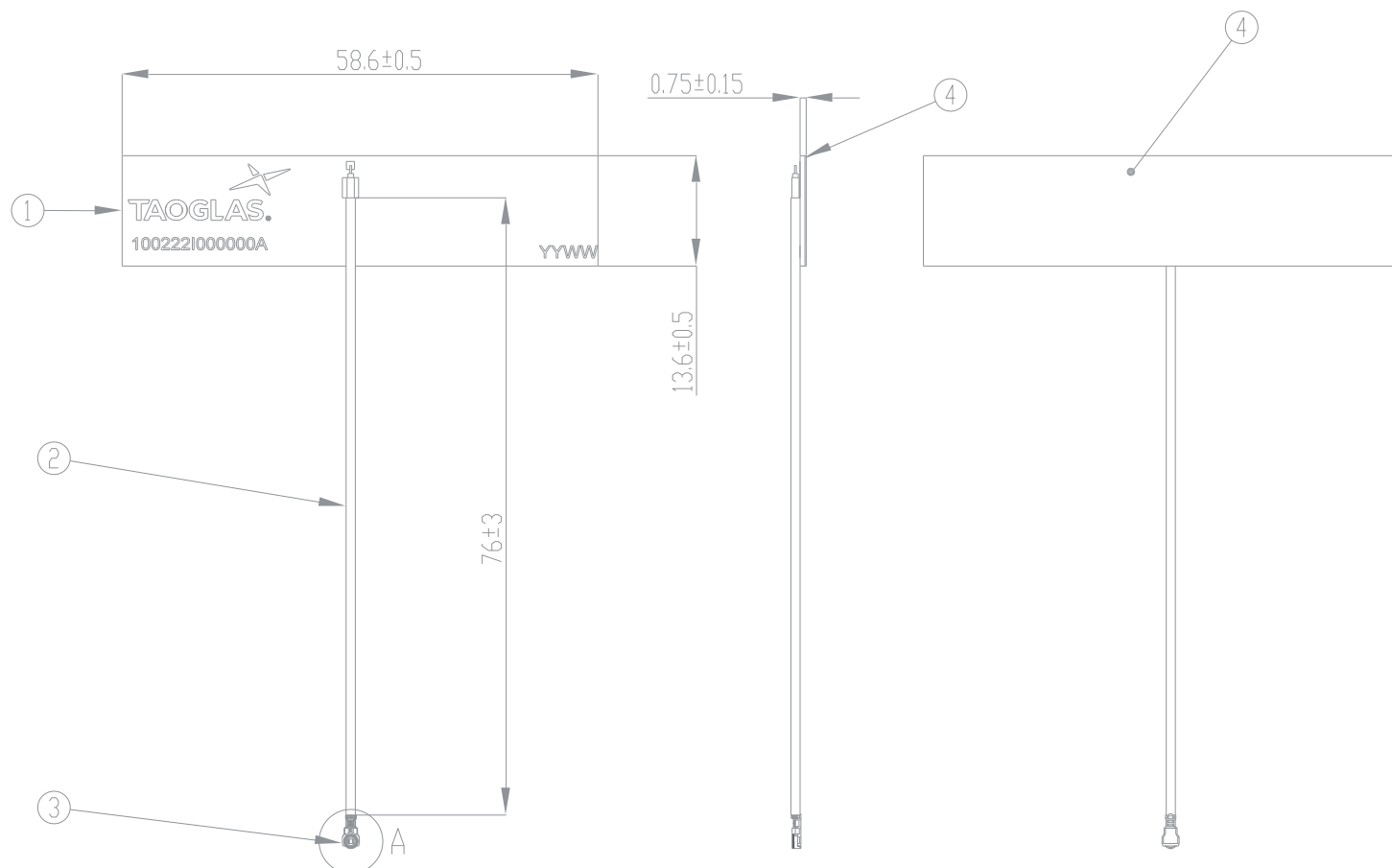
XZ Plane



YZ Plane



Mechanical Drawing



細部放大圖 A
比例 5 : 1

	Name	Material	Finish	QTY
1	PCB	PCB	Black	1
2	1.13 Coaxial Cable	FEP	Black	1
3	IPEX.MHF4L	Brass	Au Plated	1
4	3M VHB 5906	3M 5906	Black	1

Packaging



- ☑ 25 PCS / PE bag
- (Connector needs protective cover)
- ☑ SPQ Label



- ☑ 2500 PCS / Carton
- ☑ Carton(mm): 360x310x160
- ☑ Carton Label



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