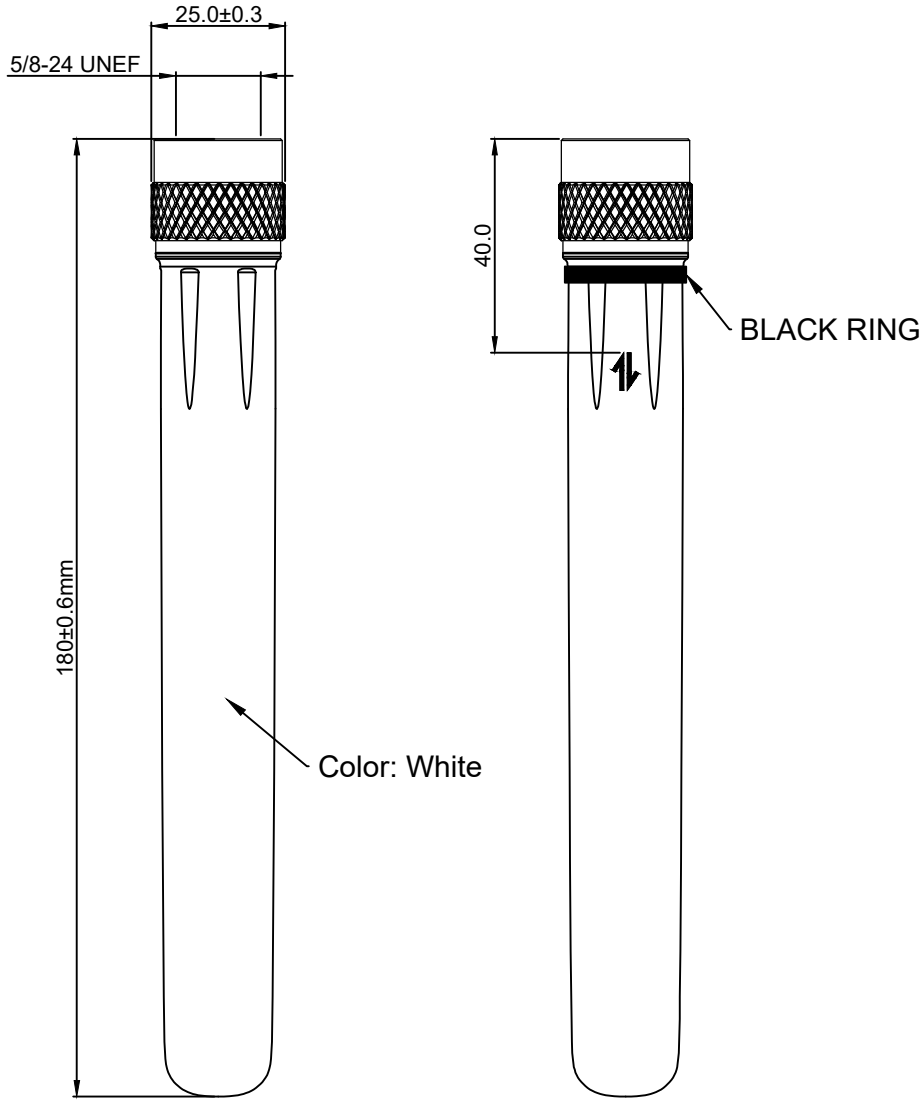
WNC
啓碁科技股份有限公司

Parts Specification Cover

Customer	**Wistron Neweb Corporation**
WNC P/N	**08.21030.006**
Supplier	**Grand-Tek Technology CO. LTD**
Brand	
Supplier P/N	**103GG00000040**
Revision	**X1**

MFG	ADDRESS	TEL
Site 1 : Factory Name **Site 2 :** Factory Name **Site 3 :** Factory Name	**8F, No 233-2, Bao Ciao Rd., Sin Dian Dist, New Taipei City,23145, Taiwan (R.O.C.)**	**02-29177353**

approval	reviewer	prepared
Mark	Jason	Gene



Electrical Specification			
Frequency Range	2400MHz~2500MHz	5150MHz - 5850MHz	5925MHz - 7125MHz
Polarization	Linear, Vertical		
HPBW-Horizontal	360°		
HPBW-Vertical	45 °		
Peak Gain	2.4 dBi Max.	5.6 dBi Max.	7.6 dBi Max.
Efficiency	82% Min.	73% Min.	73% Min.
VSWR		2.0 Max.:1	2.5 Max.:1
Impedance	50 Ohms		
Connector	RP-N plug		

Environmental & Mechanical Characteristics	
Temperature	-40°Cto 70°C
Humidity	95% @ 55°C
Radome color	White
Radome material	PC
Weight	60gw
Dimensions	⌀ 25 x 180mm

REACH
RoHS

UNLESS OTHERWISE SPECIFIED
TOLERANCE :
ANGLES : ±2°
X.X ±0.3
X.XX ±0.15
DO NOT SCALE DRAWING

Designed BY	Jason_Hsu
DRAWN BY	Gene
CHECKED BY	Eric
APPROVED BY	Mark
Type No.	-

榮昌科技股份有限公司
GRAND-TEK TECHNOLOGY CO., LTD.

TITLE Antenna,WiFi 7,Tri Band,RP-N Plug,Black Ring

G00140

SIZE	UNIT	PART NO.	REV.
A3	mm	08.21030.006	X1

SCALE	THIRD ANGLE PROJECTION	PAGE
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ITEM NO. 103GG00000040

DATE 2023-06-08

WiFi-7 Dual Band Antenna

2400~2500MHz / 5150~5850MHz / 5925~7125MHz

Final

GTT P/N: 103GG00000040

✓ RF Specification

• Frequency Range:	2400~2500 MHz / 5150~5850MHz / 5925~7125 MHz
• Polarization:	Linear
• HPBW / Horizontal:	360°
• HPBW / Vertical:	45°
• Peak Gain:	2.4 dBi / 5.6 dBi / 7.6 dBi max.
• VSWR:	2.0 typ.
• Power Handing:	2W(cw)
• Impedance:	50 Ohms
• Connector:	RP-N Plug

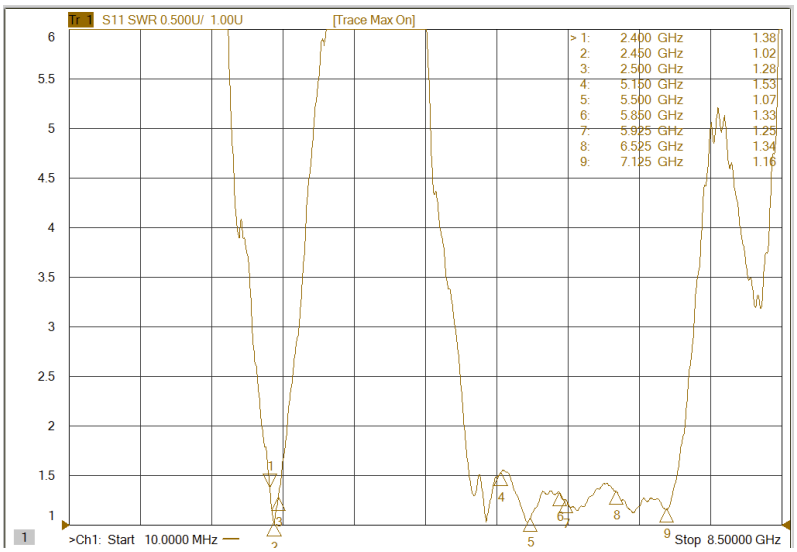
• Environmental & Mechanical Characteristics

- Temperature: -40℃ to +70℃
- Humidity: 95% @55℃
- Waterproof Rating: IPX7
- Antenna Housing Color: White
- Antenna Ring : Black
- Antenna Housing Material: PC UV Resistance
- Dimensions: 180mm(L)x25mm(OD)

Performance Summary

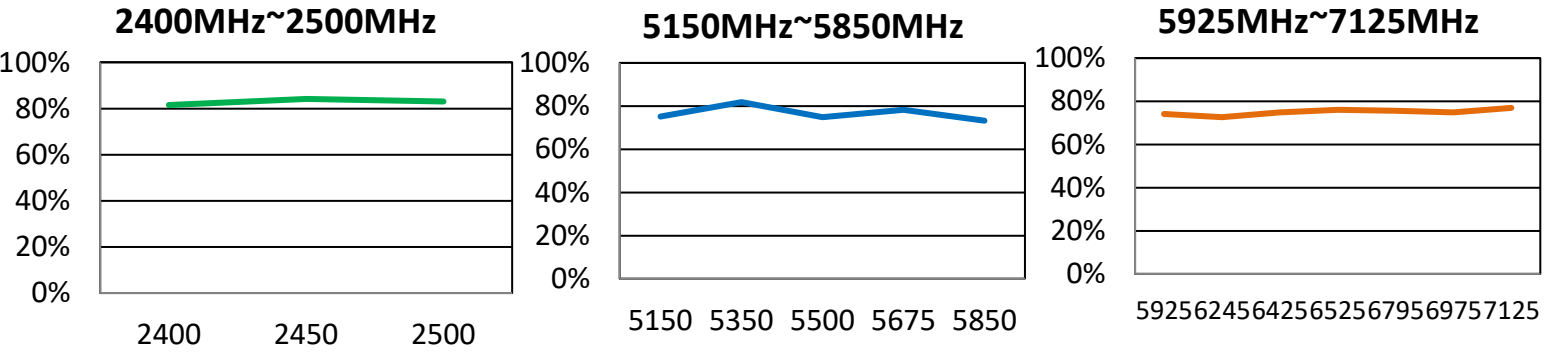
VSWR

Frequency(MHz)	2400~2500	5150~5850	5925~7125
VSWR	2.0 typ.		2.5 typ.

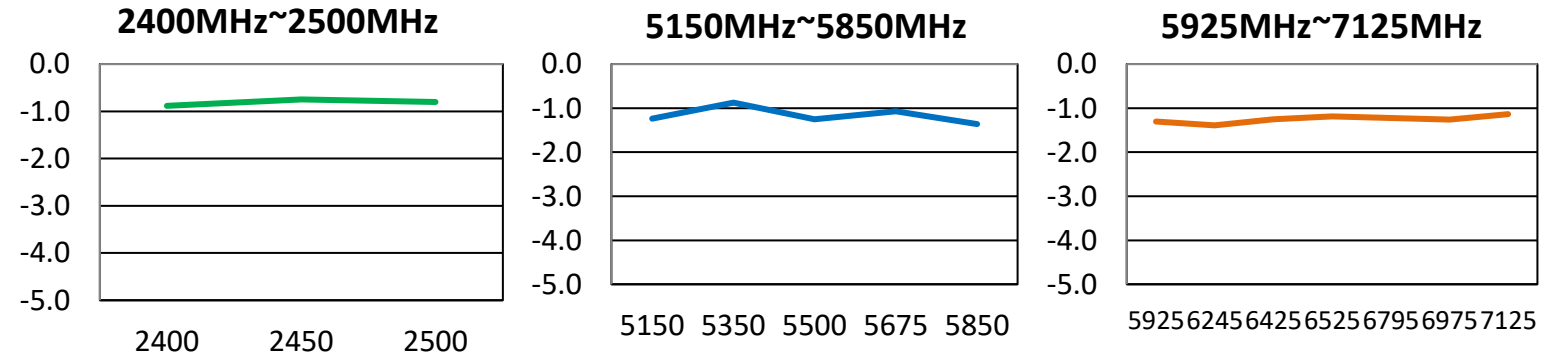


Gain Table

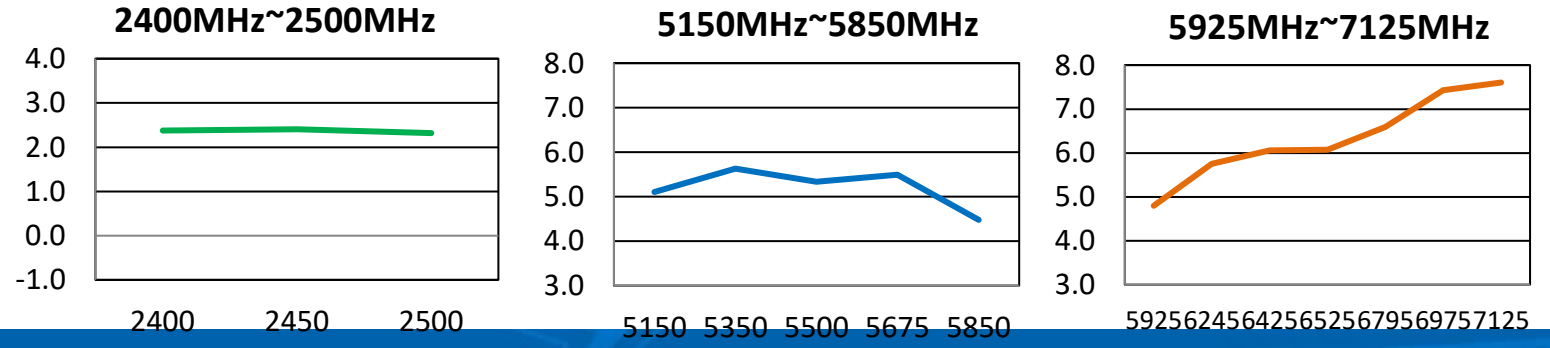
EFFICIENCY



Average Gain



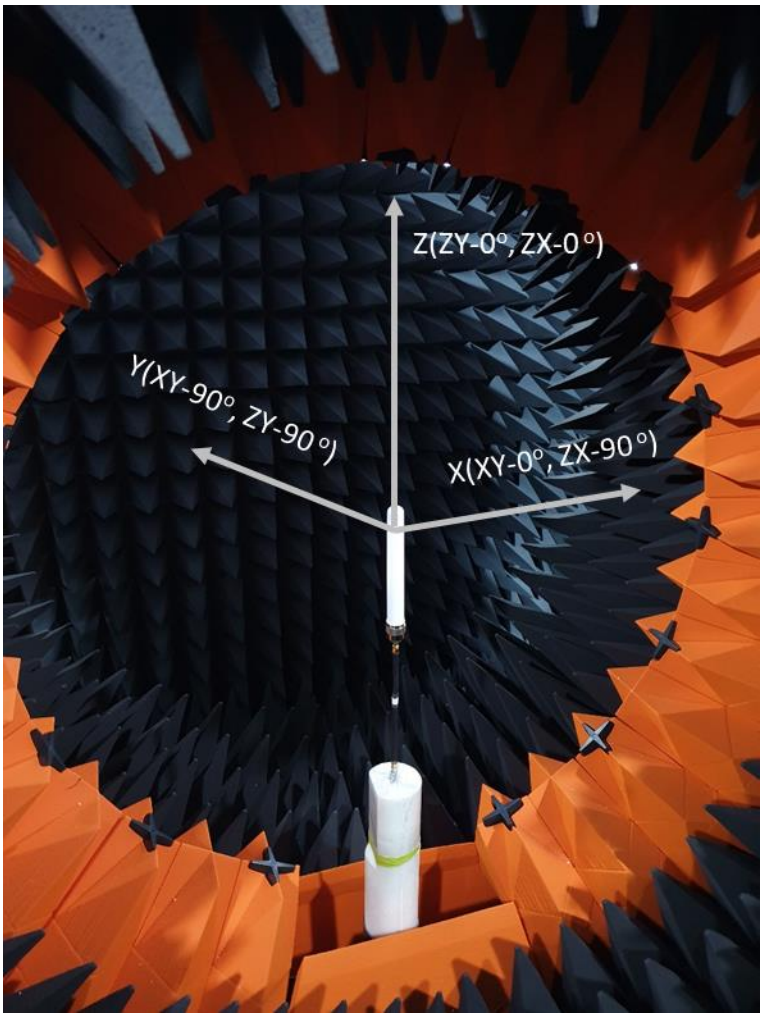
Peak Gain



Gain table

Frequency (MHz)	3D		
	Efficiency	Avg. Gain	Peak Gain
2400	82%	-0.9	2.4
2450	84%	-0.8	2.4
2500	83%	-0.8	2.3
5150	75%	-1.2	5.1
5350	82%	-0.9	5.6
5500	75%	-1.3	5.3
5675	78%	-1.1	5.5
5850	73%	-1.4	4.5
5925	74%	-1.3	4.8
6085	74%	-1.3	5.6
6245	73%	-1.4	5.8
6405	74%	-1.3	6.0
6425	75%	-1.3	6.1
6465	76%	-1.2	6.1
6525	76%	-1.2	6.1
6645	77%	-1.1	6.3
6795	76%	-1.2	6.6
6875	75%	-1.3	7.1
6975	75%	-1.3	7.4
7095	77%	-1.1	7.6
7125	77%	-1.1	7.6

Antenna Testing Setup and Orientation

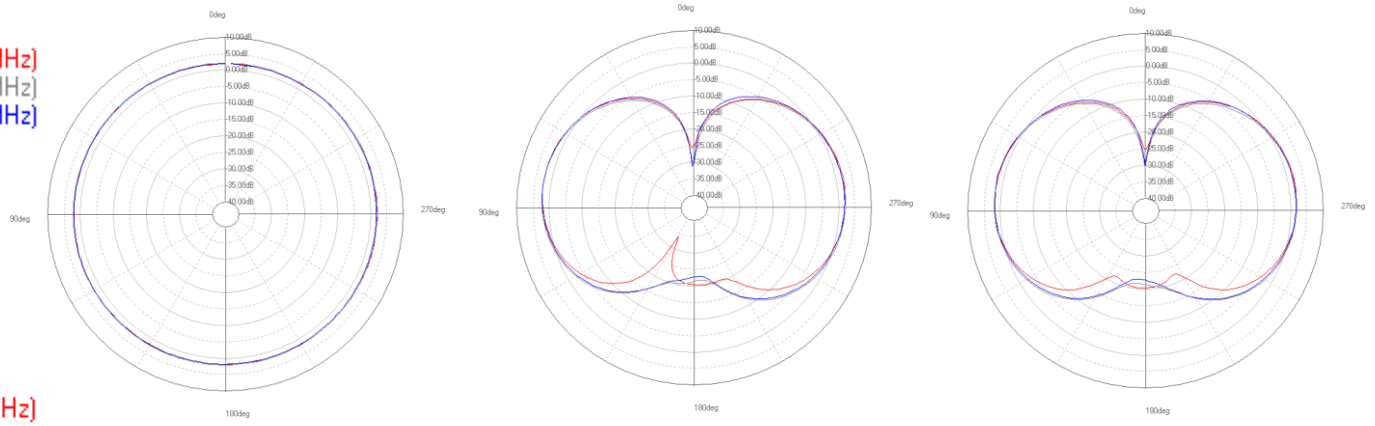


3D OTA Chamber-SATIMO Starlab® 2019

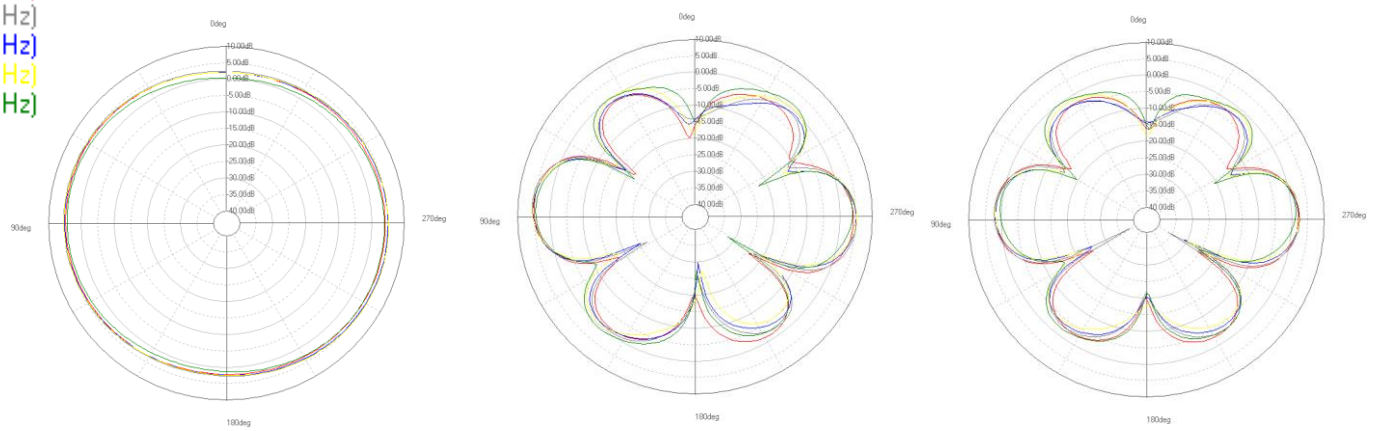
Radiation Pattern

XY-plane YZ-plane ZX-plane

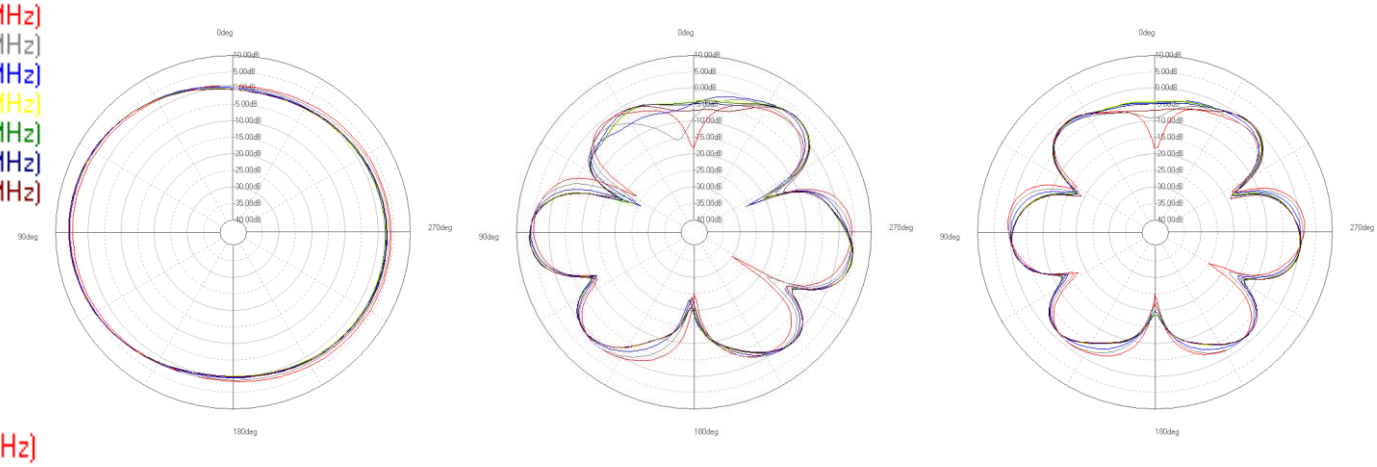
Legend
2400.00(MHz)
2450.00(MHz)
2500.00(MHz)



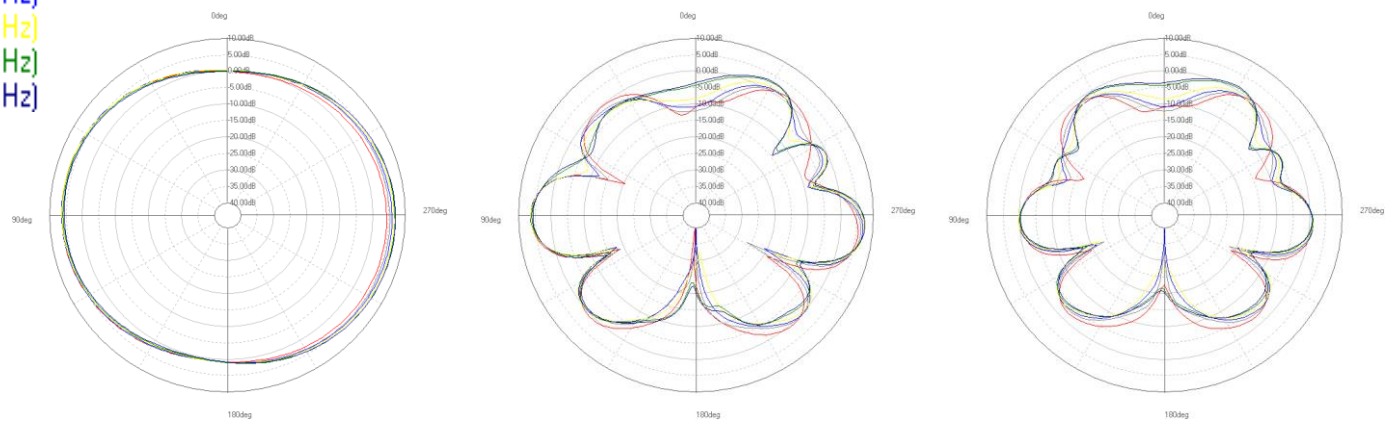
Legend
5150.00(MHz)
5325.00(MHz)
5500.00(MHz)
5675.00(MHz)
5850.00(MHz)

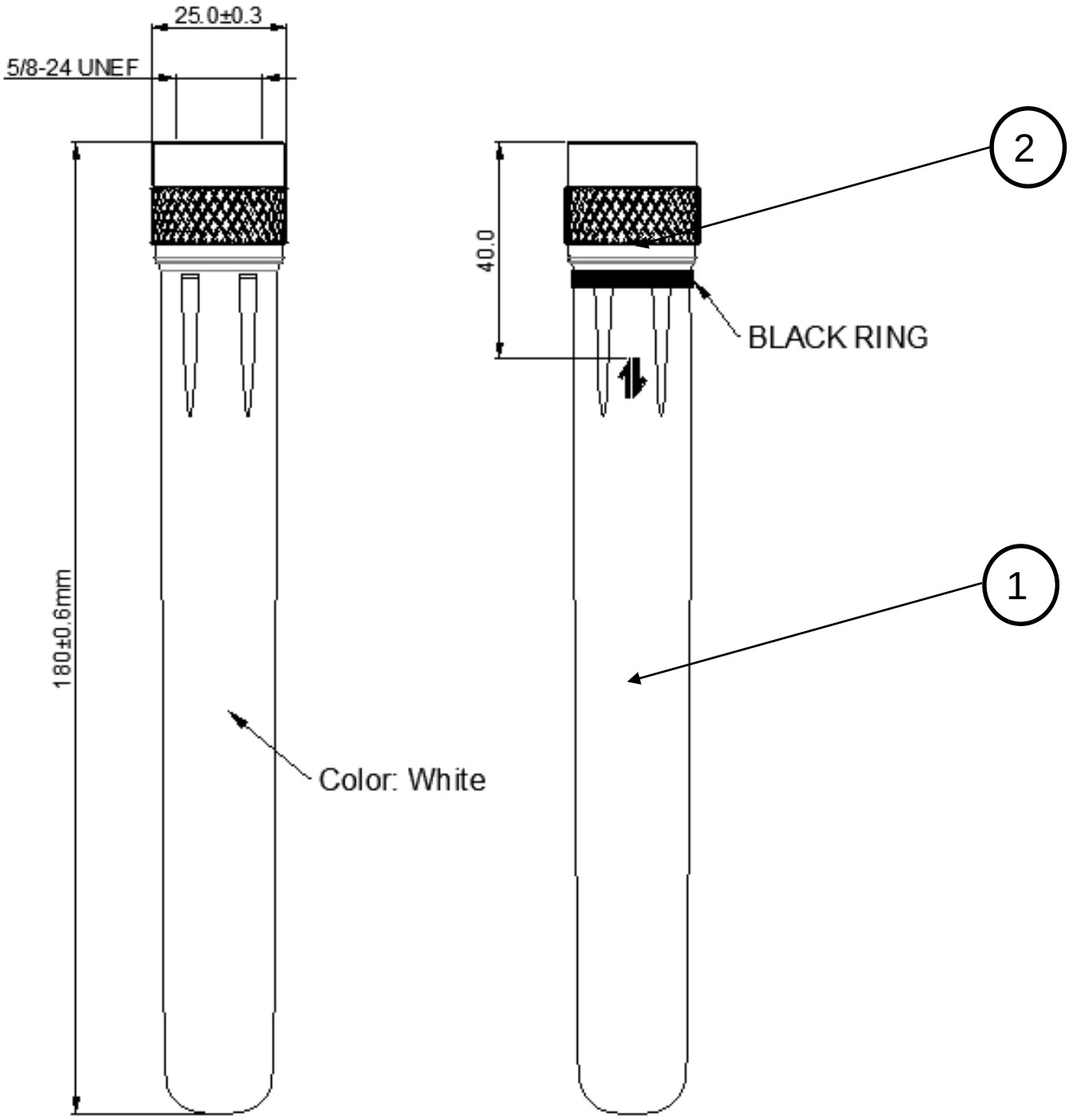


Legend
5925.00(MHz)
6085.00(MHz)
6245.00(MHz)
6405.00(MHz)
6425.00(MHz)
6465.00(MHz)
6525.00(MHz)



Legend
6645.00(MHz)
6795.00(MHz)
6875.00(MHz)
6975.00(MHz)
7095.00(MHz)
7125.00(MHz)





1. Antenna TOP Cover, PC UV Resistance
2. N Straight Plug For Robust Antenna