

OUTDOOR 2.4G/5.8G WIFI

EXTERNAL WATERPROOF PUCK ANTENNA

 2400-2500 MHz | 5100-5900 MHz



PN: M02-0600260R0A + M00-0103150R0A

Dimensions: Ø48 mm x 186.4 mm





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1 FEATURES & BENEFITS

- 2.4G & 5.8G dual-band supported
- Enhanced high-speed wireless network connectivity and data transfer for better signal strength
- Easy installation
- Durable and robust
- Reduced cost and time-to-market

2 APPLICATIONS

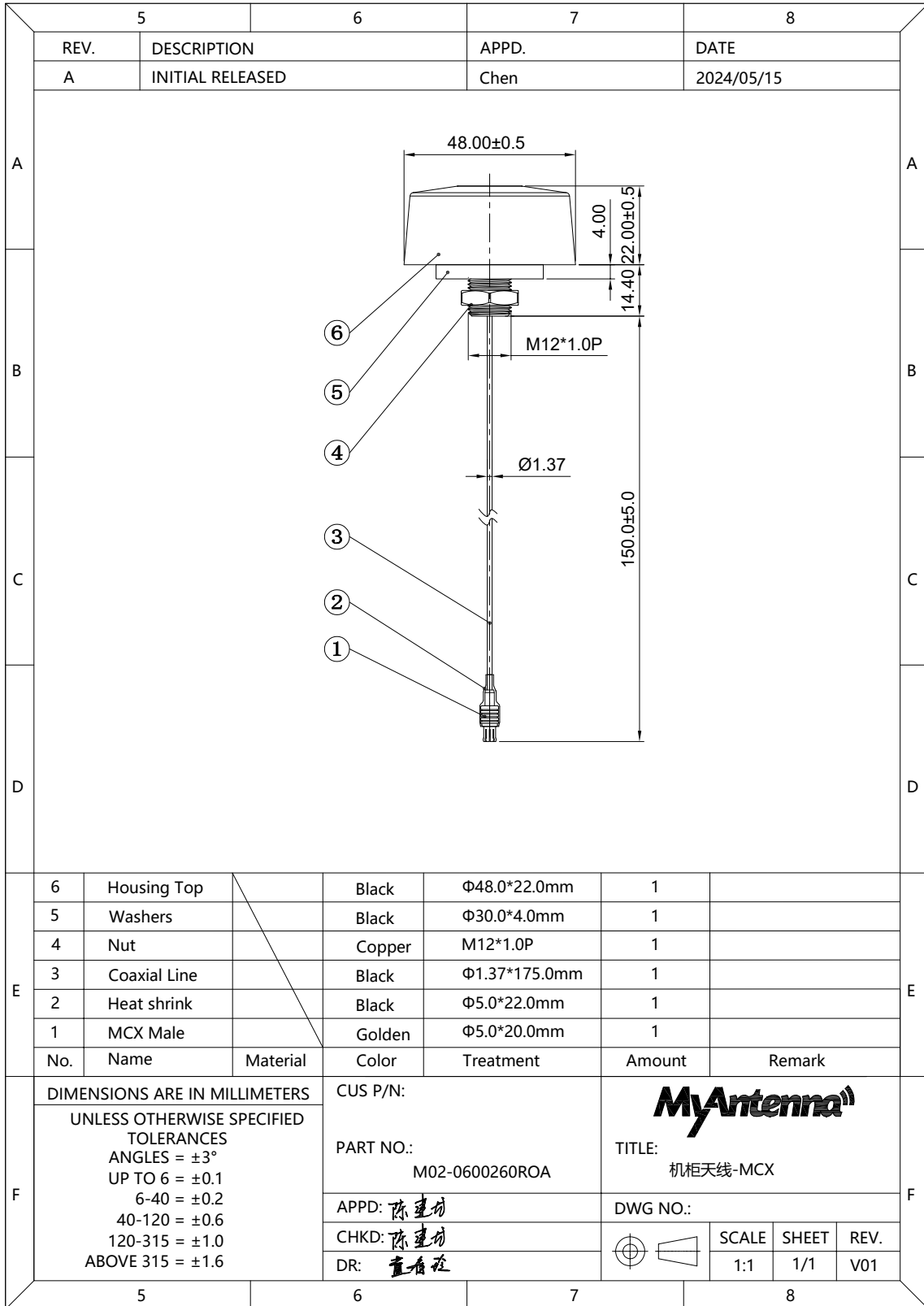
- Server Racks & Cabinets, Terminal Applications
- Smart Home & Home Security Systems
- Internet of Things (IoT) Devices
- Industrial Monitoring and Control
- Smart Agriculture

3 ORDER INFORMATION

Product Name	Outdoor 2.4G/5.8G WIFI External Waterproof Puck Antenna
Part Number	Antenna: M02-0600260R0A
	Cable: M00-0103150R0A
Dimensions	Ø48 mm x 186.4 mm
Weight	33.3 g
Color	Black
Mounting	Screw Mounted
Cable	Default IPEX 3 RF 0.81 coaxial cable (Ø 0.81 x 100 mm)
Customization	Logo, packaging, cable and connectors customization supported.



4 MECHANICAL DIMENSIONS





REV.	DESCRIPTION	APPD.	DATE					
A	INITIAL RELEASED	Chen	2024/05/15					

No.	Name	Material	Color	Treatment	Amount	Remark
4	MCX Female		Golden	Φ5.0*1.80mm	1	
3	Heat shrink		Black	Φ5.0*22.0mm	1	
2	Coaxial Line		Black	Φ0.81*90.0mm	1	
1	IPEX MHF 3		Golden		1	
1	Name					

<p>DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED</p> <p>ANGLES = ±3° UP TO 6 = ±0.1 6-40 = ±0.2 40-120 = ±0.6 120-315 = ±1.0 ABOVE 315 = ±1.6</p>		<p>CUS P/N:</p>	<p>PART NO.: M00-0103150R0A</p>	<p>TITLE: MCX-IPEX Coaxial Line</p>
<p>APPD: 陈建明</p> <p>CHKD: 陈建明</p> <p>DR: 陈建明</p>	<p>DWG NO.:</p>	<p>SCALE: 1:1</p>	<p>SHEET: 1/1</p>	<p>REV: V01</p>

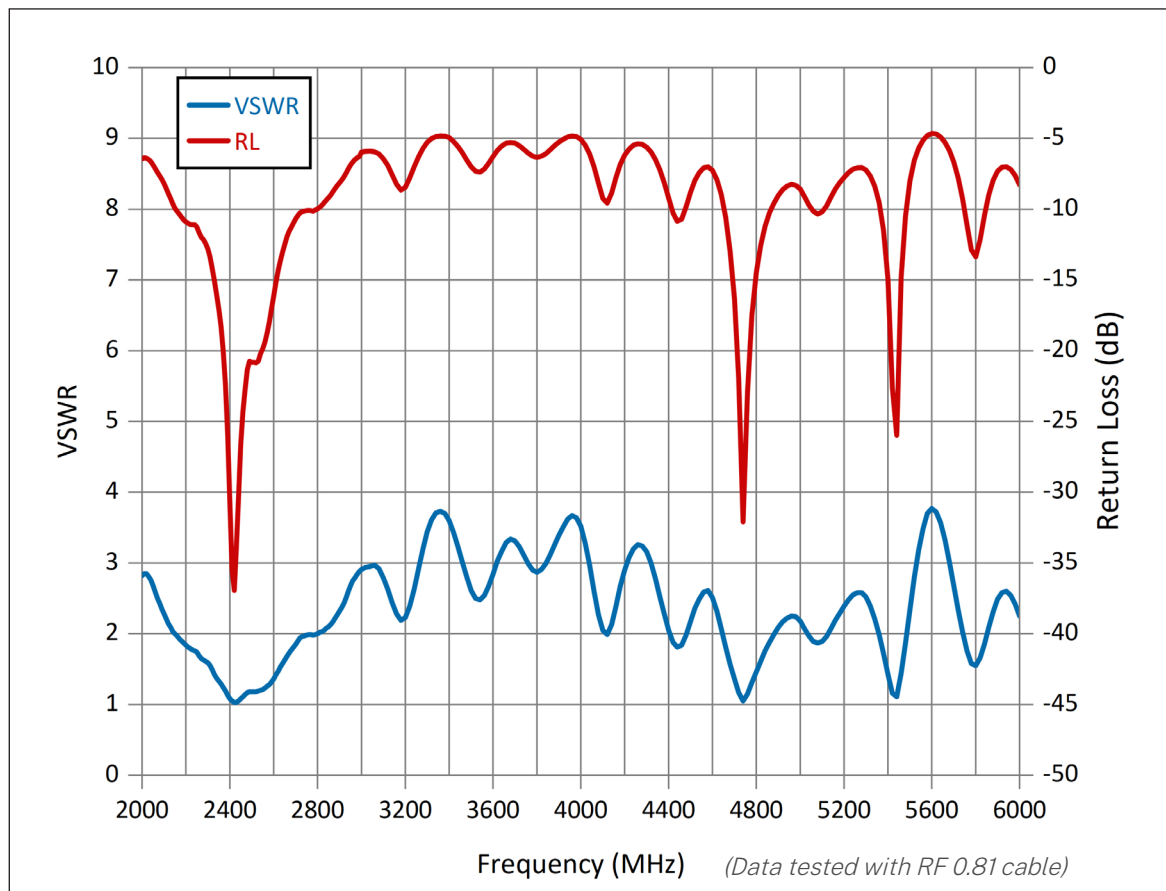


5 REFERENCE GUIDE

Technical Features	2400-2500 MHz	5100-5900 MHz
Peak Gain	Up to 2.70 dBi	Up to 1.04 dBi
Max Efficiency	68.85%	44.66%
Input Impedance	50Ω	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Operating Temperature	-40°C to +85°C	
Material Substance Compliance	RoHS Compliant	

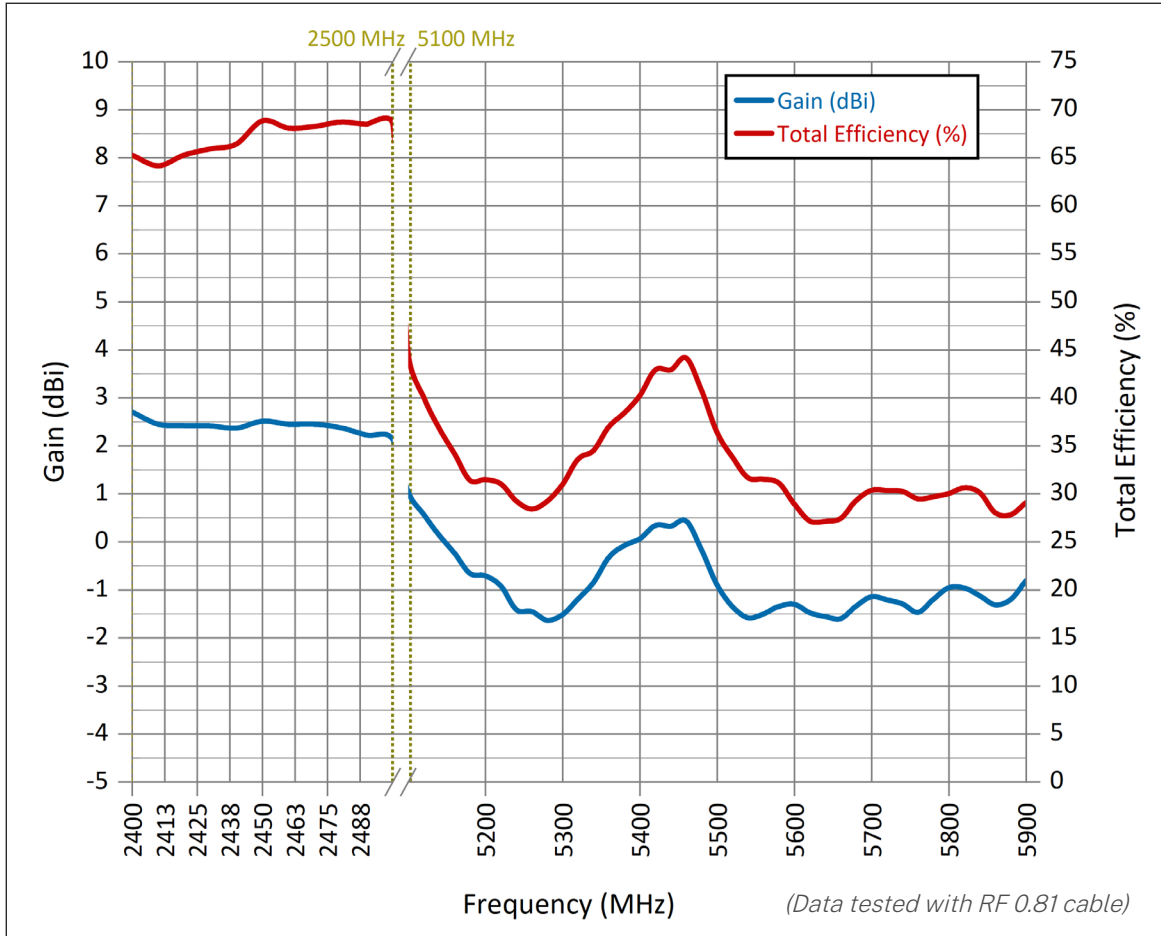
6 ELECTRICAL PERFORMANCE

6.1 VSWR and Return Loss (dB)





6.2 Gain (dBi) and Total Efficiency (%)

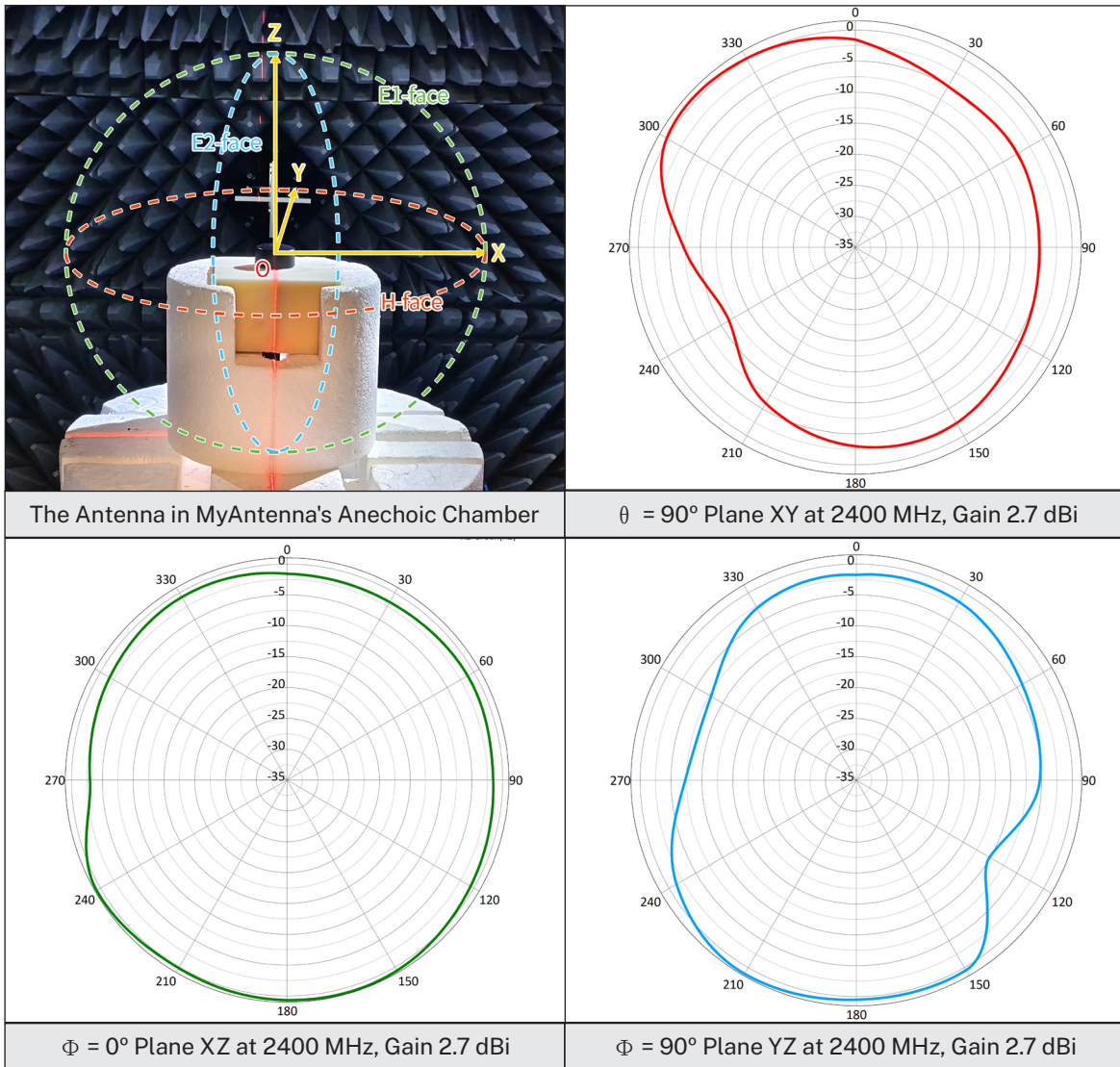


Frequency (MHz)	Gain (dBi)	Total Efficiency (%)
2400	2.70	65.26
2410	2.45	64.15
2420	2.42	65.28
2430	2.42	65.93
2440	2.37	66.44
2450	2.51	68.85
2460	2.45	68.09
2470	2.45	68.25
2480	2.38	68.69
2490	2.22	68.48
2500	2.14	68.54



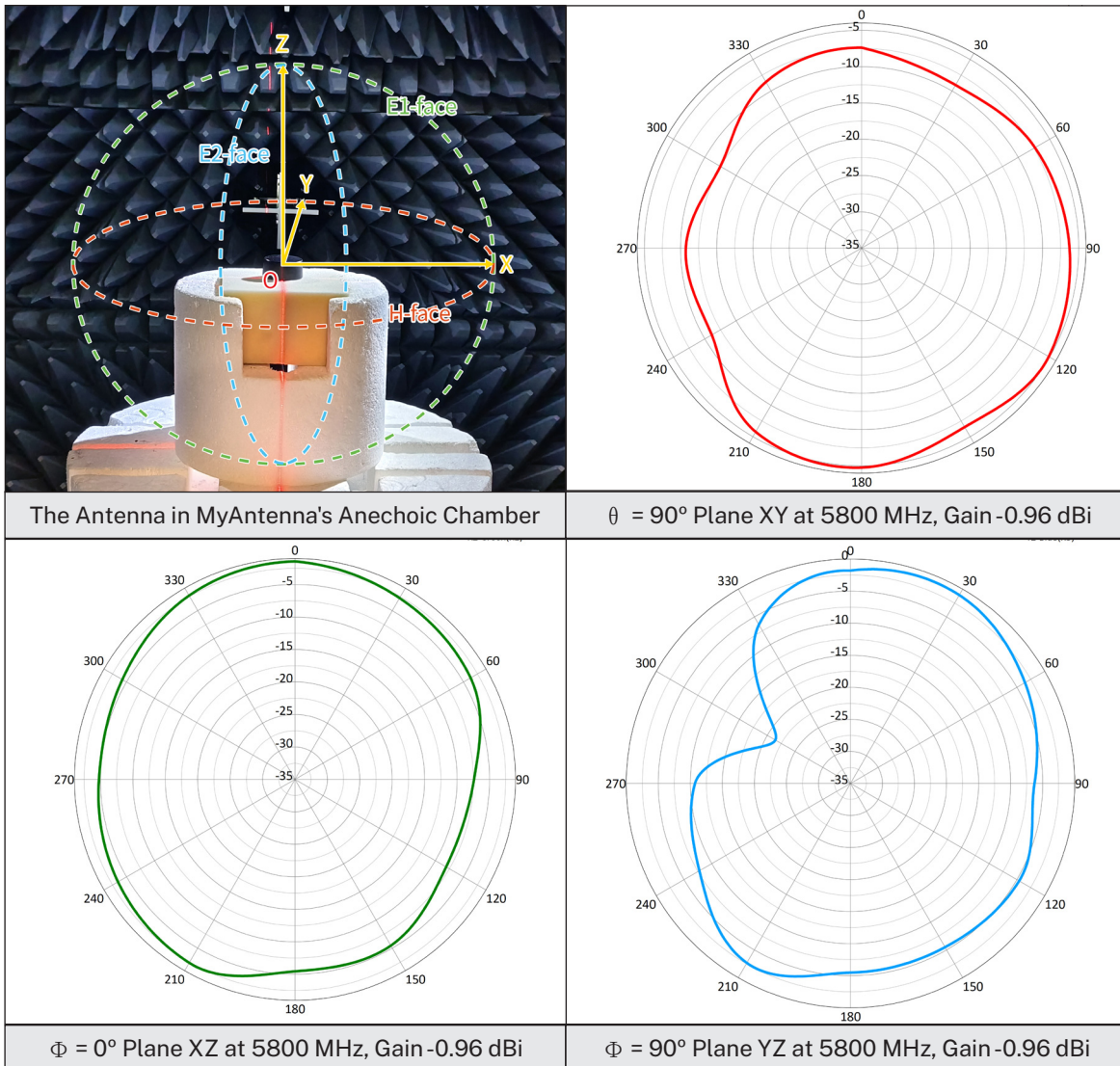
Frequency (MHz)	Gain (dBi)	Efficiency (%)
5100	1.04	44.66
5200	-0.71	31.47
5300	-1.51	30.99
5400	0.07	40.23
5500	-0.90	36.38
5600	-1.30	28.92
5700	-1.14	30.38
5800	-0.96	30.04
5900	-0.81	29.10

6.3 Radiation Patterns (2400 MHz-2500 MHz)



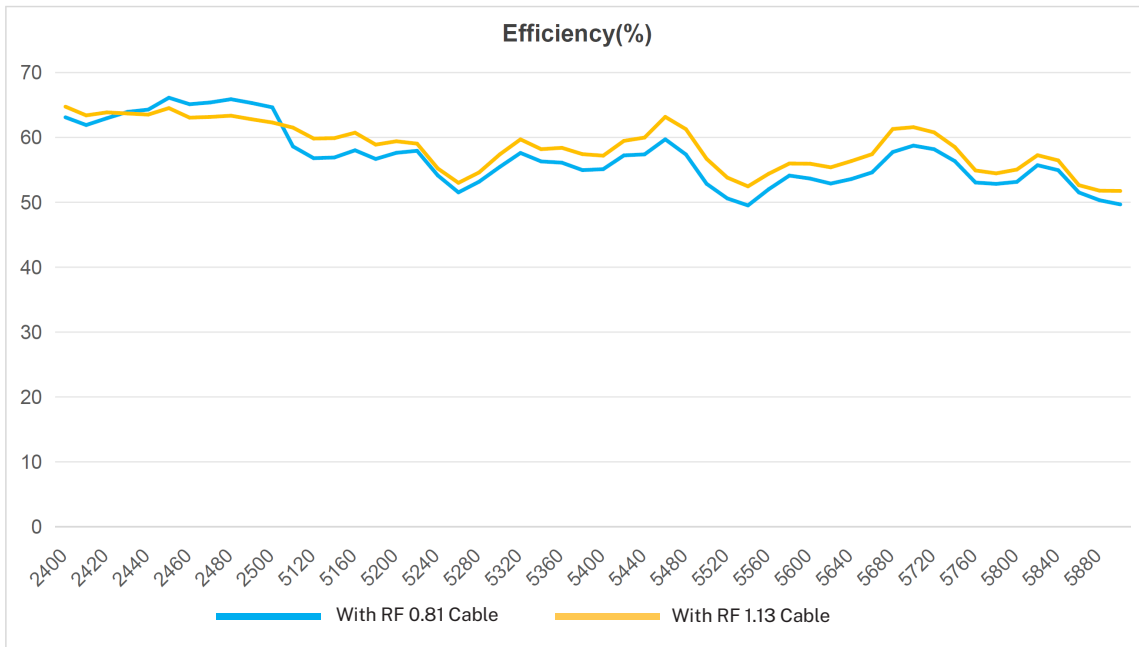
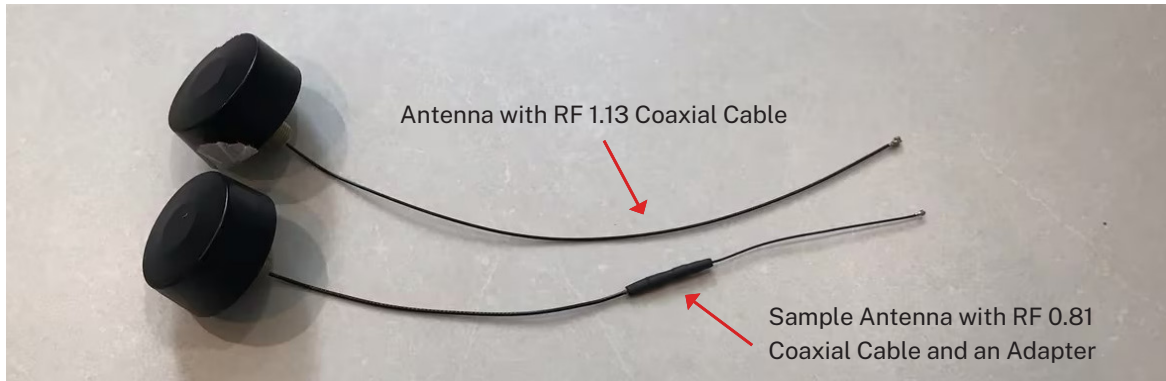
(Data tested with RF 0.81 cable)

6.4 Radiation Patterns (5100 MHz-5900 MHz)



(Data tested with RF 0.81 cable)

7 CONCLUSION



By comparing the test data of the sample with RF 1.13 cable and the sample with RF 0.81 cable and an adapter, the adapter loss of the sample with RF 0.81 cable is not significant.



8 WELCOME ALL ANTENNA OEM/ODM PROJECTS

About ABOOSTY



10+ years in antenna R&D, production, and OEM/ODM



House of Aboosty: 1M+ units annual output capacity



Factory directly competitive price



Industry-leading quality levels



Professional team-work & support



Quick price and lead time estimation

Why Choose ABOOSTY



Innovative and patented design solutions



Full terminal devices anechoic chamber test



Co-location with its custom



Competitive price



Strict inspection



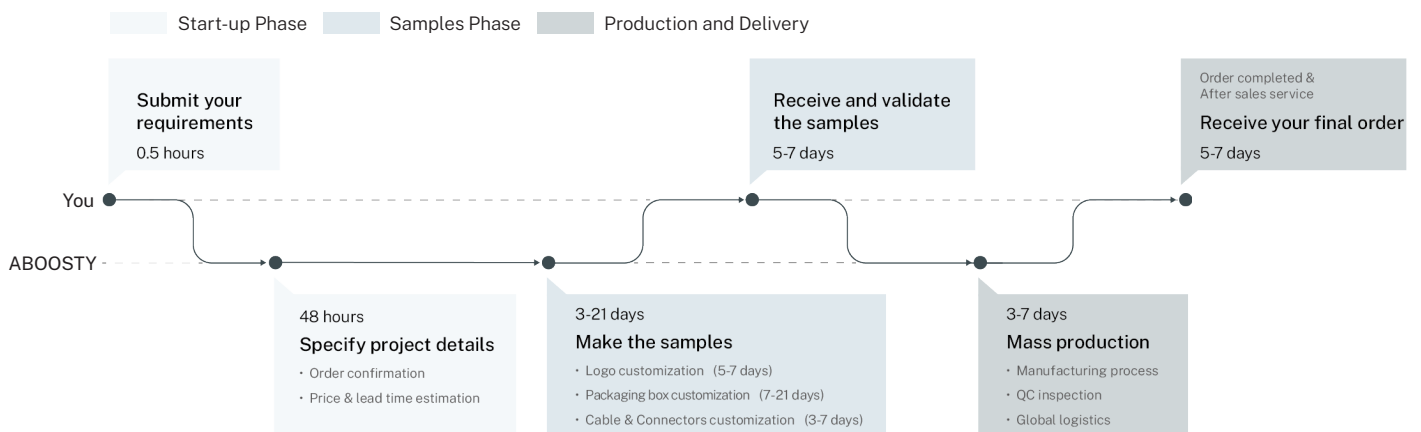
Prompt reply within 24h

What We Provide

OEM/ODM Services	
Light Customization	Deep Customization
<ul style="list-style-type: none"> Logo Packaging Cables&Connectors 	<ul style="list-style-type: none"> In-depth tailoring for specific applications Functional enhancements Environmental adaptations Vertical certifications ...

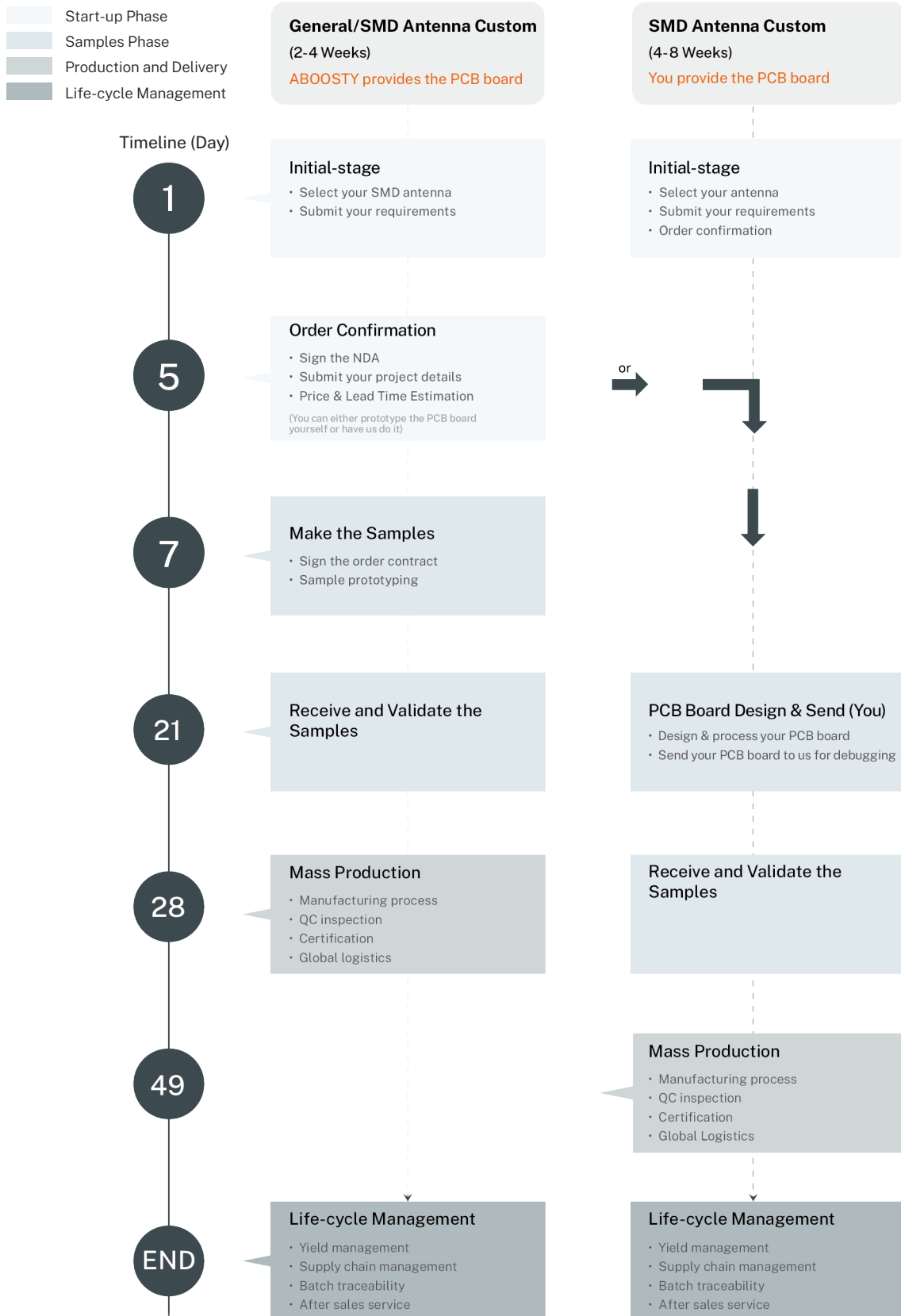
Custom Process

Light Customization Process





Deep Customization Process



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