2.4G WIFI OMNI

EXTERNAL MINI ANTENNA

2400-2500 MHz

PN: M02-0600270R0A + M00-0103160R0A
Dimensions: Ø18 mm x 30 mm
Cable Length: Ø 0.81 mm x 500 mm

RoHS COMPLIANT

Table of Contents

1 FEATURES & BENEFITS 1

3 ORDER INFORMATION 1

2 APPLICATIONS 1

4 MECHANICAL DIMENSIONS 2

5 REFERENCE GUIDE 4

6 ELECTRICAL PERFORMANCE 4

6.1 VSWR and Return Loss (dB) 4

6.2 Gain (dBi) and Total Efficiency (%) 5

6.3 Radiation Patterns (2400-2500 MHz) 6

7 WELCOME ALL ANTENNA OEM/ODM PROJECTS 7

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1 FEATURES & BENEFITS

- Light Weight
- Waterproof
- Easy Installation
- Enhanced High-Speed Wireless Network Connectivity and Data Transfer
- Reduced Cost and Time-to-Market

2 APPLICATIONS

- Industrial Automation and Control
- Wireless Sensor Networks
- Remote Monitoring and Management
- Inventory Management in Warehouses
- Wireless Security Cameras and Surveillance Systems
- IoT Integration and Production Tracking
- Smart Agriculture

3 ORDER INFORMATION

Product Name	2.4G WiFi Omni External Mini Antenna
Part Number	Antenna: M02-0600270R0A
	Cable: M00-0103160R0A
Dimensions	Ø 18 x 30 mm
Weight	0.8g
Color	Black
Mounting	Screw Mounted
Cable	Default IPEX 3 RF 0.81 coaxial cable (Ø 0.81 x 500 mm)
Customization	Logo, packaging, cable and connectors customization supported.

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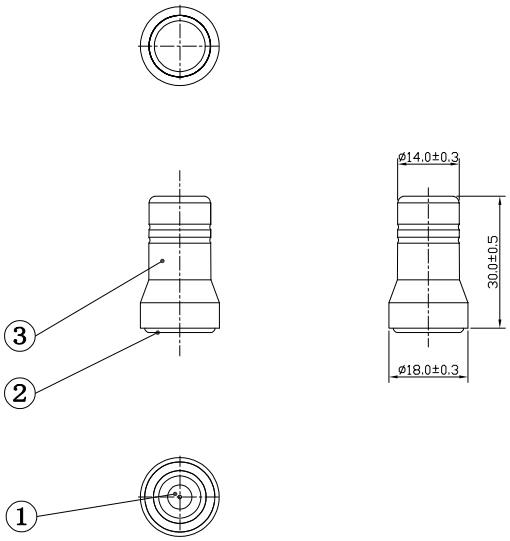
4 MECHANICAL DIMENSIONS

REV.	DESCRIPTION	APPD.	DATE
A	INITIAL RELEASED	Chen	2024/05/28



No.	Name	Material	Color	Treatment	Amount	Remark
3	Body		Black	Φ18.0*30.0mm	1	
2	O-RING		Black	Φ16.0*Φ2.0mm	1	
1	SMA		Golden	1/4''-36UNS-2B	1	

DIMENSIONS ARE IN MILLIMETERS

UNLESS OTHERWISE SPECIFIED
TOLERANCES
ANGLES = ±3°
UP TO 6 = ±0.1
6-40 = ±0.2
40-120 = ±0.6
120-315 = ±1.0
ABOVE 315 = ±1.6

CUS P/N:

PART NO.: IM02-0600270ROA

APPD: 陈建功

CHKD: 陈建功

DR: 曹雅玲

MyAntenna

TITLE: 小棒状2.4G天线

DWG NO.:

SCALE	SHEET	REV.
1:1	1/1	V01

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REV.	DESCRIPTION	APPD.	DATE
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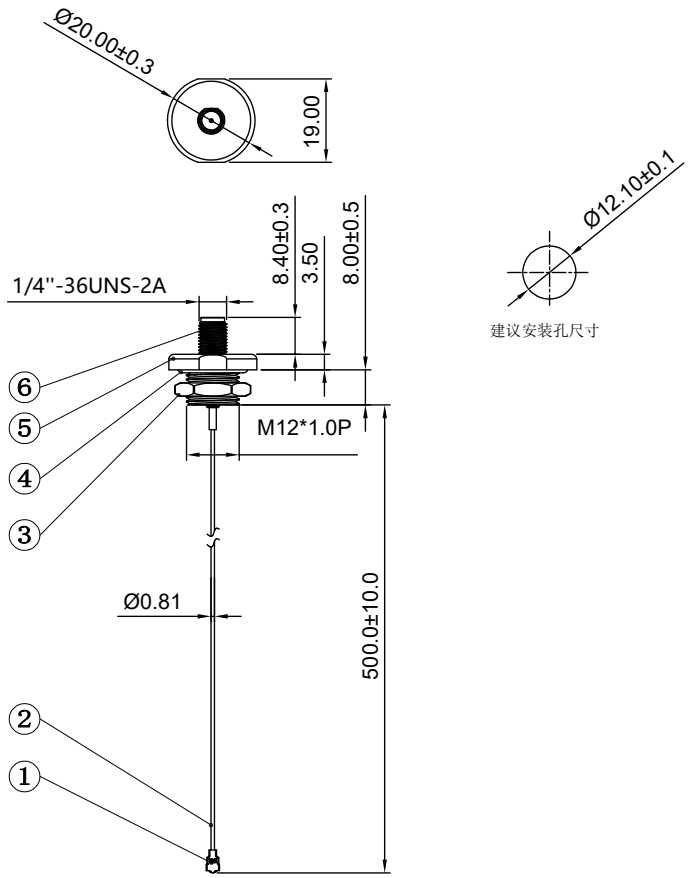

No.	Name	Material	Color	Treatment	Amount	Remark
6	SMA		Golden	1/4''-36UNS-2A	1	
5	Body Screws		Black	20.0*11.5mm	1	
4	O-RING		Black	Φ16.0*Φ2.0mm	1	
3	Nut		Copper	M12*1.0P	1	
2	Coaxial Line		Black	Φ0.81*500.0mm	1	
1	IPEX 3		Golden		1	

DIMENSIONS ARE IN MILLIMETERS

UNLESS OTHERWISE SPECIFIED
TOLERANCES
ANGLES = ±3°
UP TO 6 = ±0.1
6-40 = ±0.2
40-120 = ±0.6
120-315 = ±1.0
ABOVE 315 = ±1.6

CUS P/N:

PART NO.: M00-0103160R0A

APPD: 陈建功

CHKD: 陈建功

DR: 董福花

TITLE: SMA-IPEX 3 转接线

DWG NO.:

SCALE	SHEET	REV.
1:1	1/1	V01

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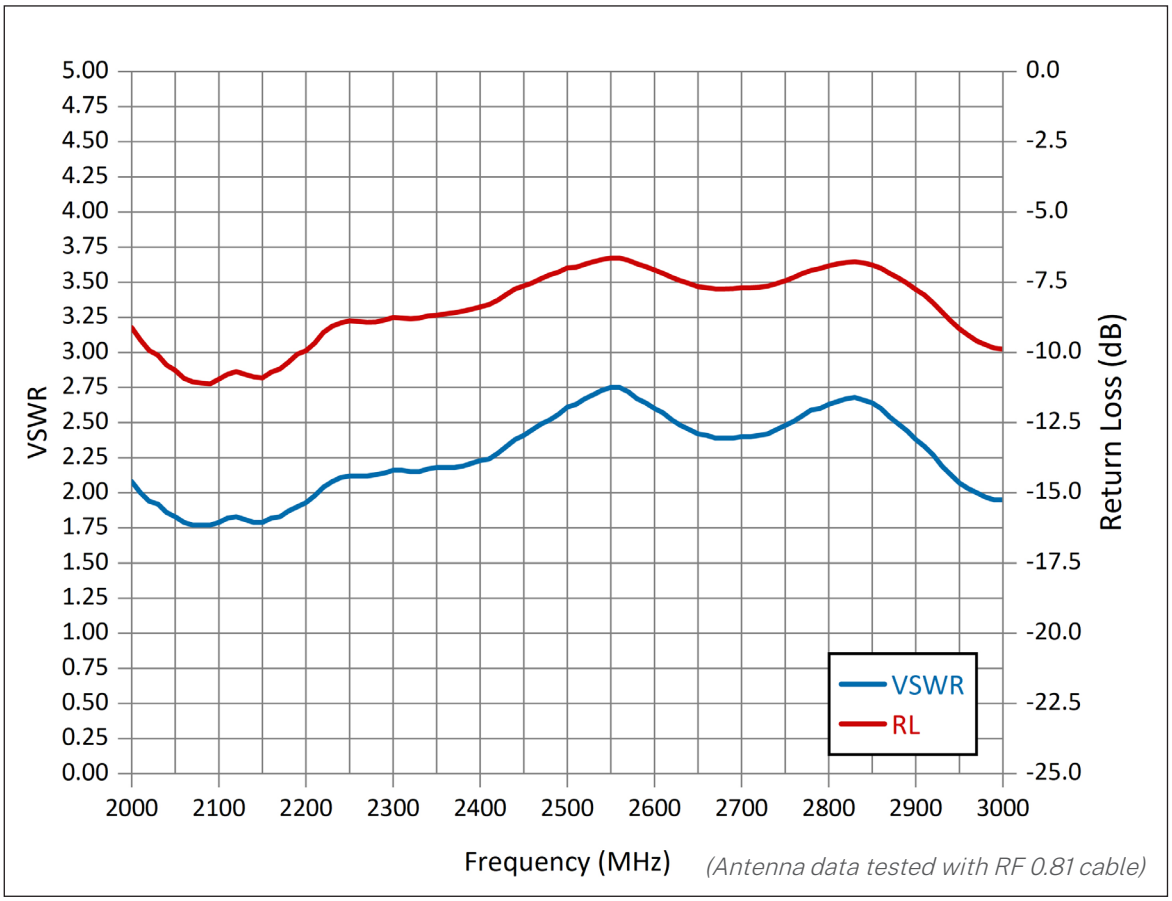
5 REFERENCE GUIDE

Technical Features	2400-2500 MHz
Peak Gain	Up to 2.10 dBi
Max Efficiency	44.93%
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)



(Antenna data tested with RF 0.81 cable)

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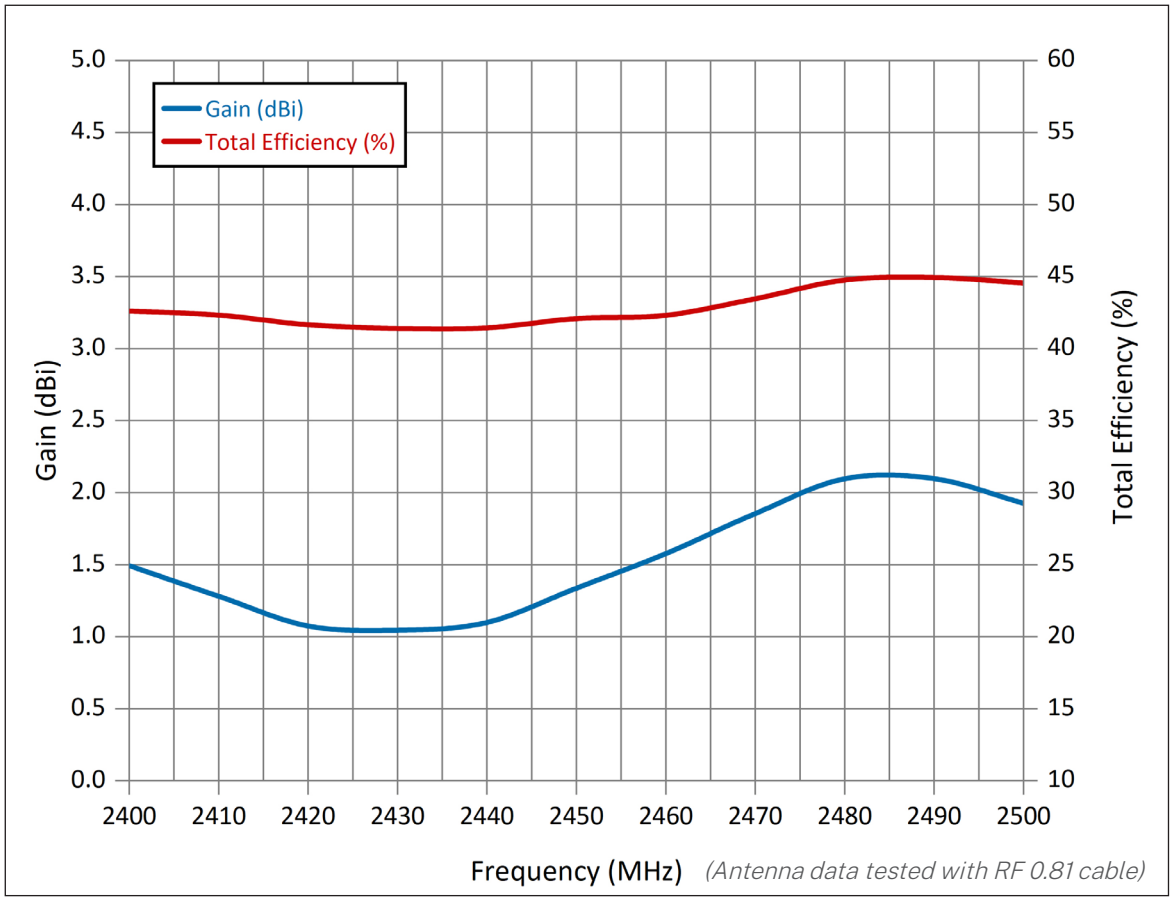
6.2 Gain (dBi) and Total Efficiency (%)



Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	42.60	1.49
2410	42.31	1.28
2420	41.65	1.07
2430	41.39	1.04
2440	41.43	1.10
2450	42.07	1.34
2460	42.30	1.58
2470	43.44	1.85
2480	44.75	2.10
2490	44.93	2.10
2500	44.56	1.93

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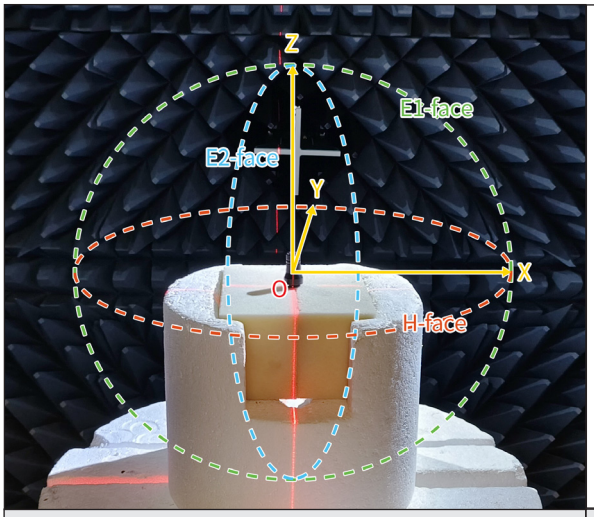
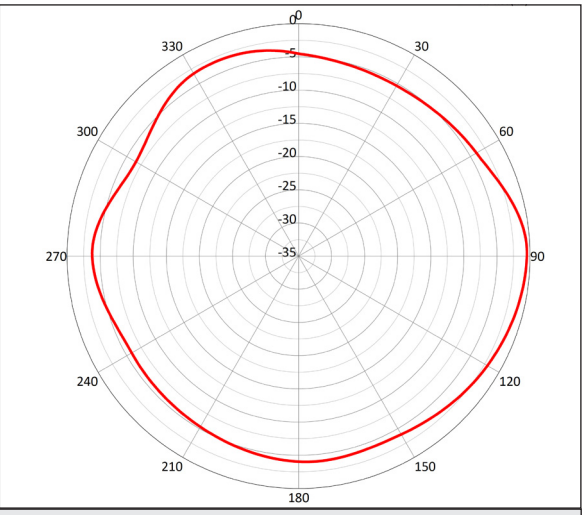
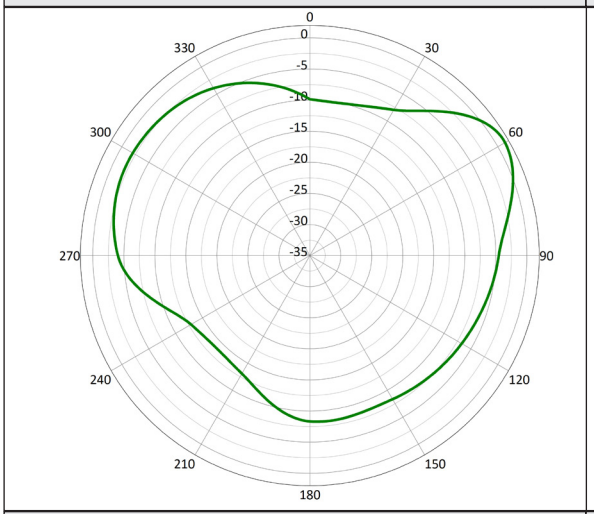
6.3 Radiation Patterns (2400-2500 MHz)



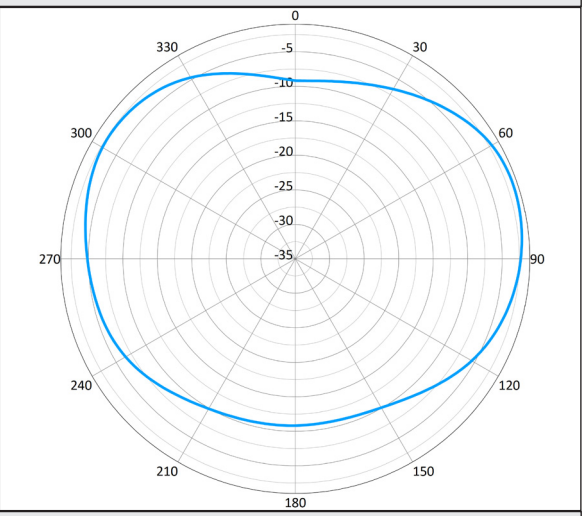
The Antenna in MyAntenna's Anechoic Chamber



θ = 90° Plane XY at 2450 MHz, Gain 1.34 dBi



Φ = 0° Plane XZ at 2450 MHz, Gain 1.34 dBi



Φ = 90° Plane YZ at 2450 MHz, Gain 1.34 dBi

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7 WELCOME ALL ANTENNA OEM/ODM PROJECTS

About ABOOSTY

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

House of Aboosty: 450,000 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

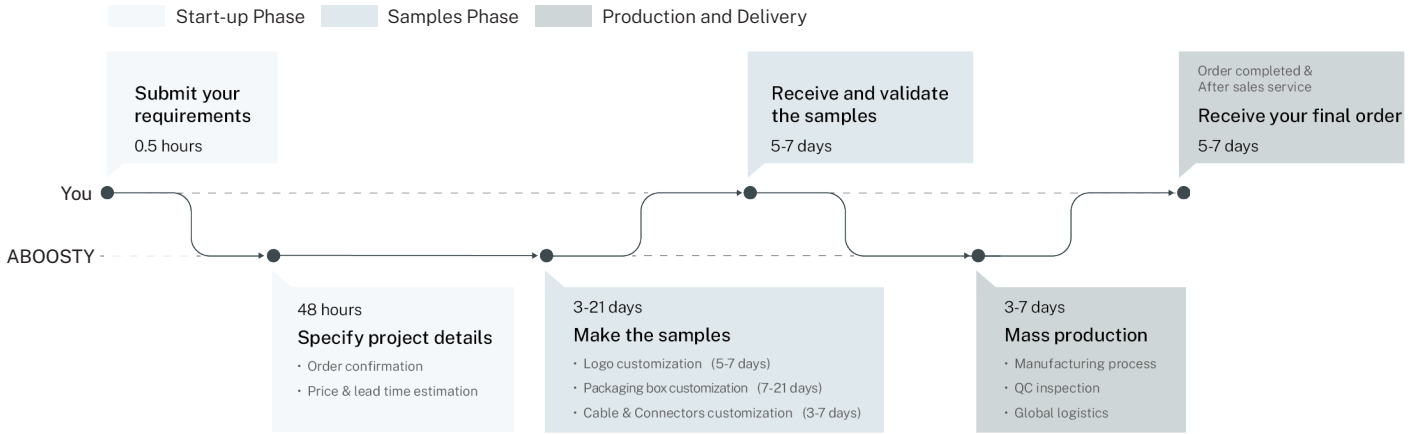
Prompt reply within 24h

What We Provide

OEM/ODM Services	
Light Customization	**Deep Customization**
· Logo · Packaging · Cables&Connectors	· In-depth tailoring for specific applications · Functional enhancements · Environmental adaptations · Vertical certifications · ...

Custom Process

Light Customization Process



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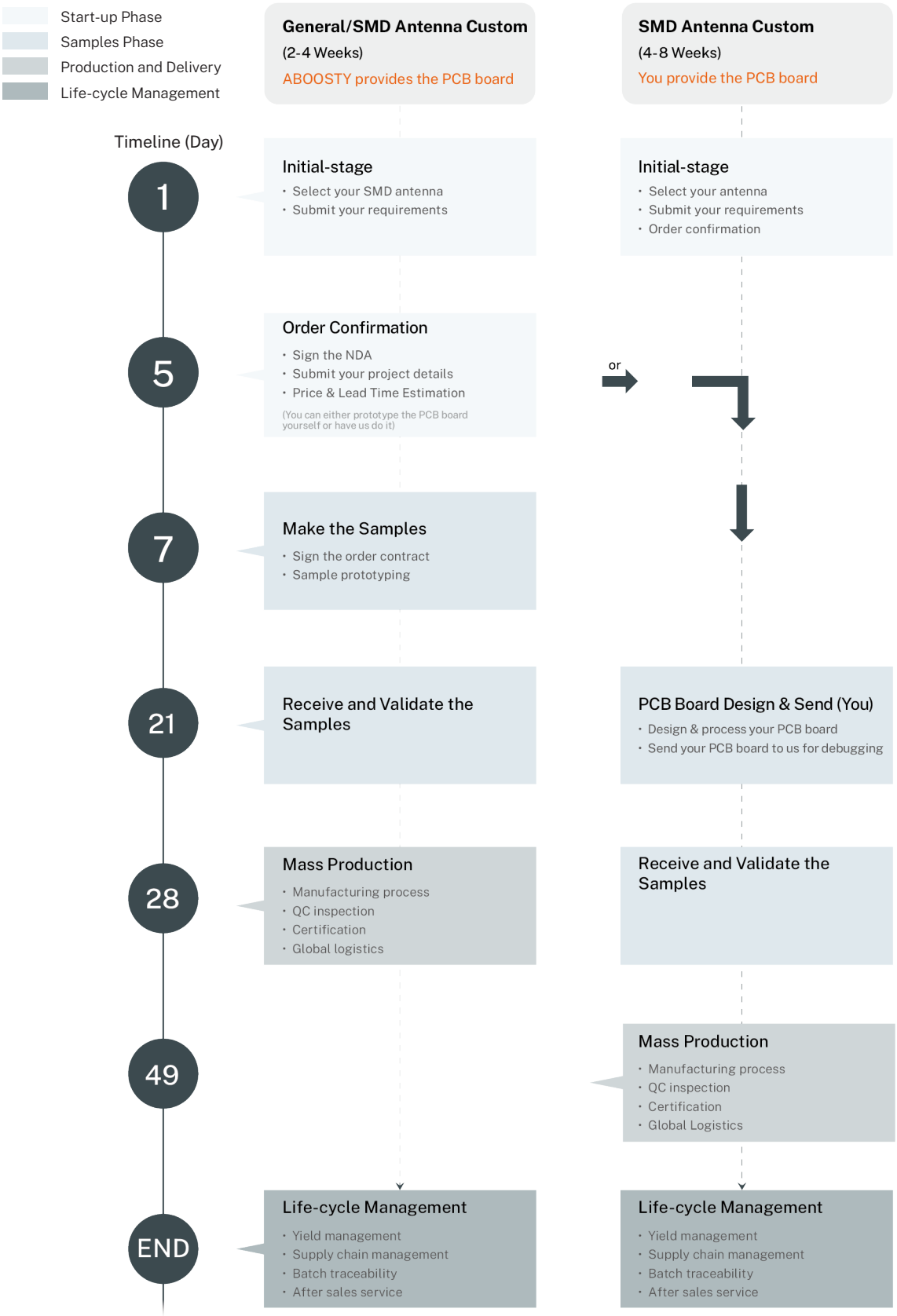
Deep Customization Process



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