

# WATERPROOF 5G 4G

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## ANTENNA FOR IOT SMART METERS

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  617-960 MHz | 1400-6000 MHz



PN: M02-0100130R0A  
Dimensions: Ø32 x 68 mm





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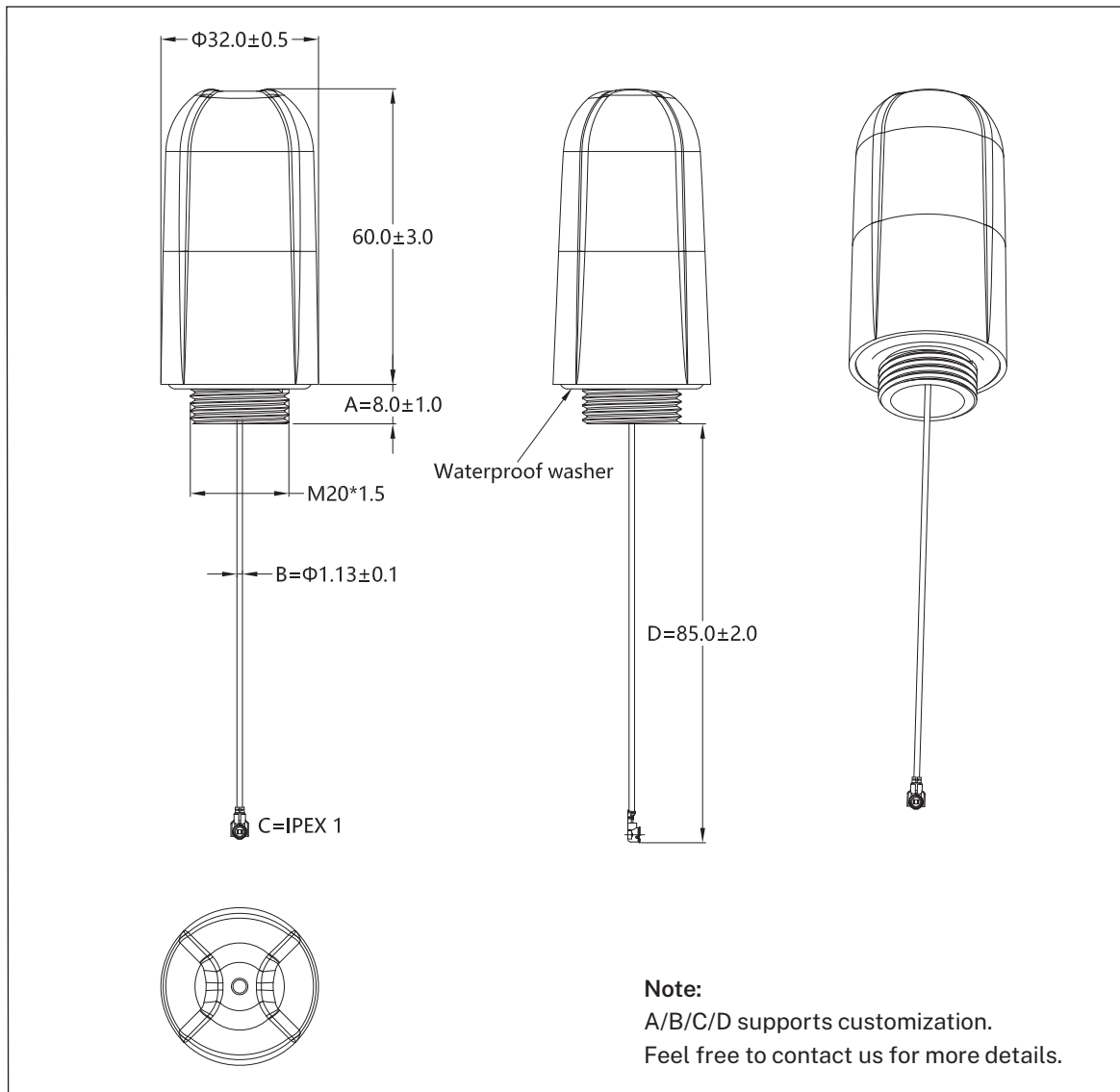
## FEATURES & BENEFITS

- External omni 5G/4G/3G antenna
- Lightweight, low profile and rugged design
- Easy installation with built-in bolt interface, can be directly screwed onto devices without additional screws.
- UV-resistant, Impact-resistant, dustproof and waterproof
- RF cables and connectors customization supported

## APPLICATIONS

Various IoT applications, including,

- Smart valves
- Pressure/Level/Flow transmitters
- Temperature transmitters
- Water meters ect.





## ORDER INFORMATION

Product Name	Waterproof 5G 4G Antenna for IoT Smart Meters
Part Number	M02-0100130R0A
Dimensions	Ø32 x 68 mm
Weight	30 g
Color	Black
Mounting	Screw mount
Cable	Default IPEX 1 RF 1.13 coaxial cable ( Ø 1.13 x 85 mm ) , customizable.

## REFERENCE GUIDE

Technical Features	617-960 MHz	1400-6000 MHz
Max VSWR	4.91:1	2.43:1
Max Efficiency	83.27%	
Peak Gain	Up to 5.05 dBi (Typ)	
Max Input Power	10 Watts CW	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Input Impedance	50 Ω	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	10 to 70%	
Material Substance Compliance	RoHS Compliant	
Dimensions (L x W x H)	Ø32 x 68 mm	
All data were measured on a water meter as shown on cover with an 85-mm-long RF 1.13 cable. Application data might vary.		

## ELECTRICAL PERFORMANCE

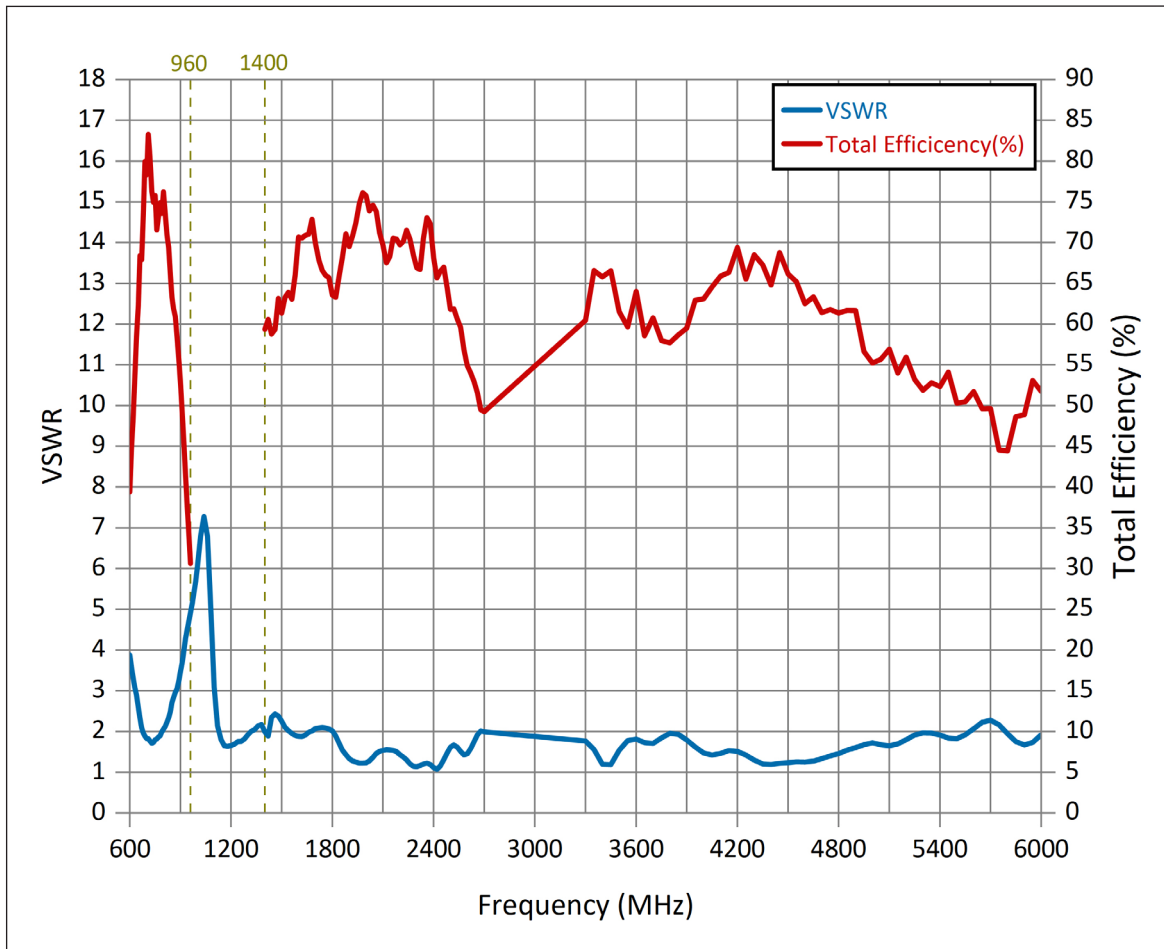
© **Note**

All data displayed in "ELECTRICAL PERFORMANCE" were measured on the water meter as shown below with an 85-mm-long RF 1.13 cable.



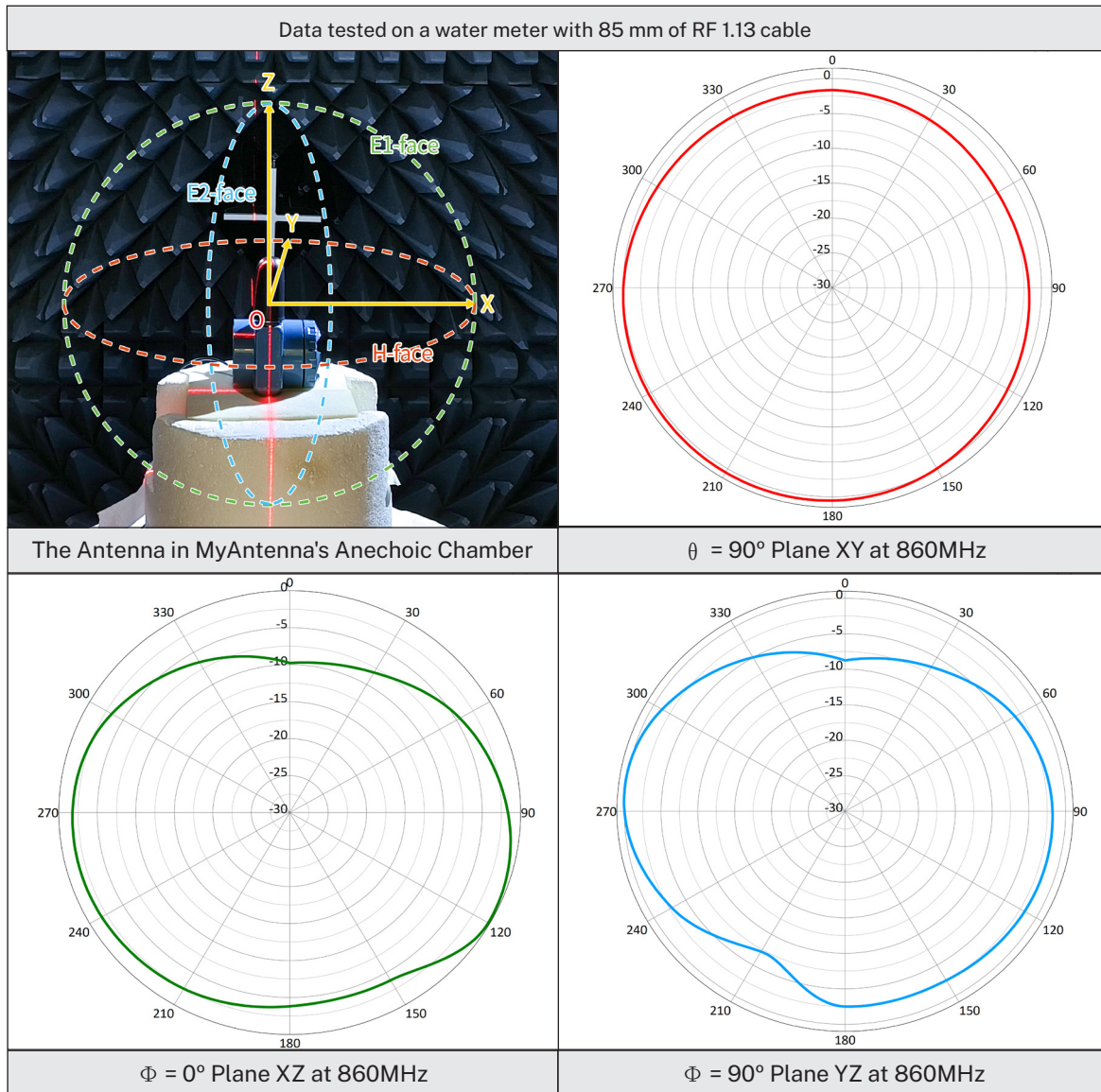
A sample of use cases: Antenna mounted on a water meter

## VSWR and Total Efficiency (%)



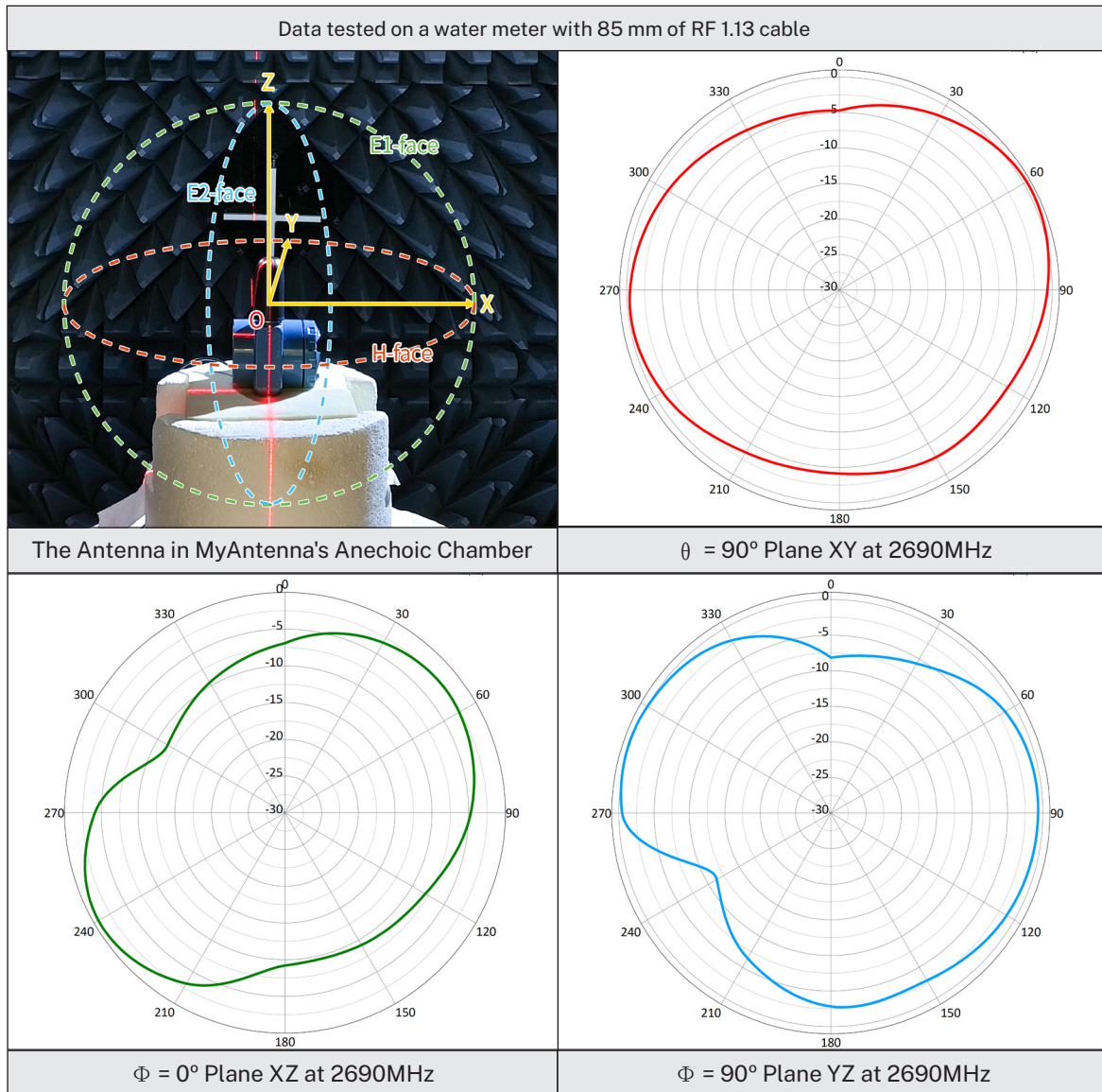
(Note: Data were tested on a water meter with 85 mm of RF 1.13 cable.)

## Radiation Patterns (617-960 MHz), Efficiency (%) and Gain (dBi)



<b>Gain</b>	Peak Gain	1.24 dBi
	Average Gain across the band	0.34 dBi
	Gain Range across the band (min, max)	-2.0 to 1.24 dBi
<b>Efficiency</b>	Peak Efficiency	83.27%
	Average Efficiency across the band	62.33%
	Efficiency Range across the band (min, max)	30.64 to 83.27%

## Radiation Patterns (1400-6000 MHz), Efficiency (%) and Gain (dBi)



<b>Gain</b>	Peak Gain	0.39 dBi
	Average Gain across the band	2.44 dBi
	Gain Range across the band (min, max)	0.39 to 5.05 dBi
<b>Efficiency</b>	Peak Efficiency	76.13%
	Average Efficiency across the band	62.79%
	Efficiency Range across the band (min, max)	76.13 to 44.43%





## 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



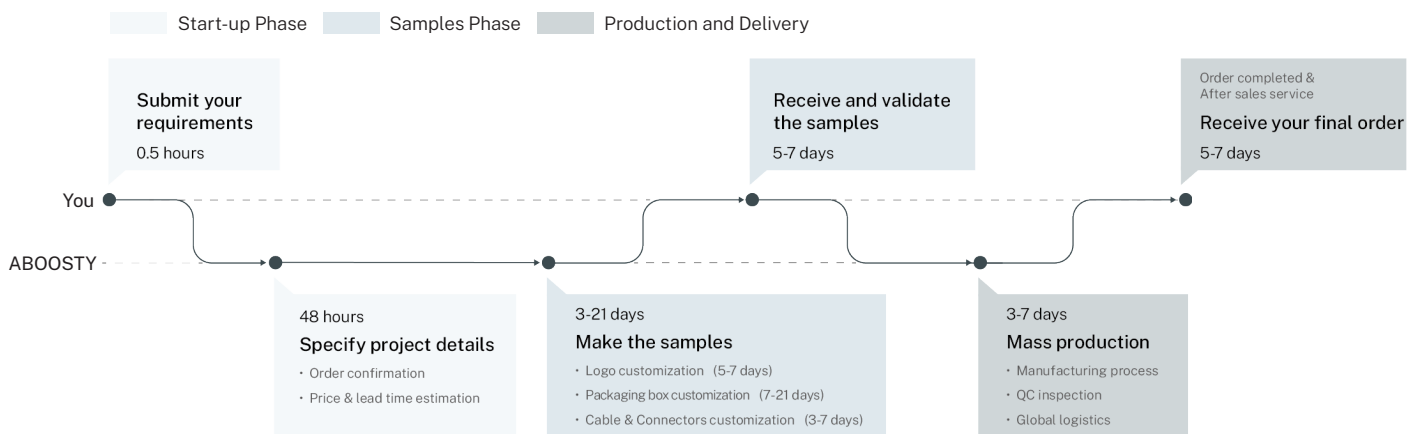
Prompt reply within 24h

### What We Provide

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

### Custom Process

#### Light Customization Process





## Deep Customization Process

