

SPECIFICATION FOR APPROVAL

Customer	
Part Name	915 Black Rubber Rod with 1.13 Gray Cable 100 mm Gen1
Zhaohe Part No.	010001-0213-00195
Customer Part No.	

Customer Confirmation

Confirmation	Checked	Approved

Manufacturer Recognition

Sales	Drafted By	Checked By	Approved By
He Chao	Xiao Yuehong	Pu Qinghai	Lin Weidong

Thank you for giving us the opportunity to submit samples for approval. If approved, please kindly sign and return this document to us

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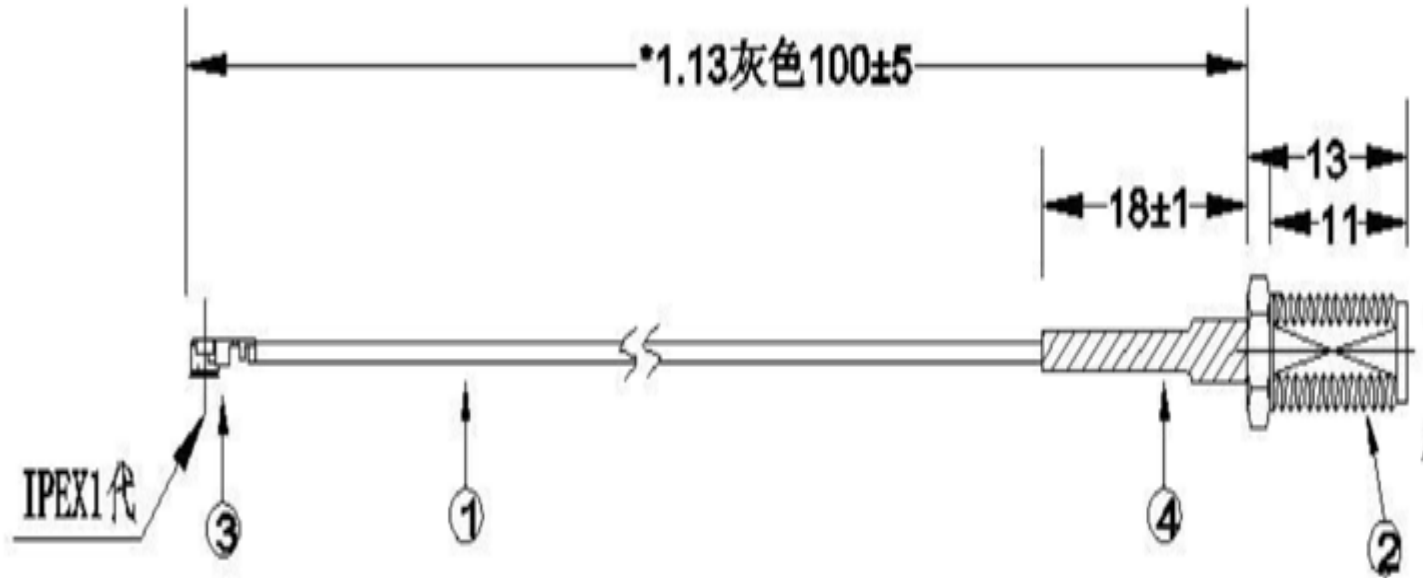
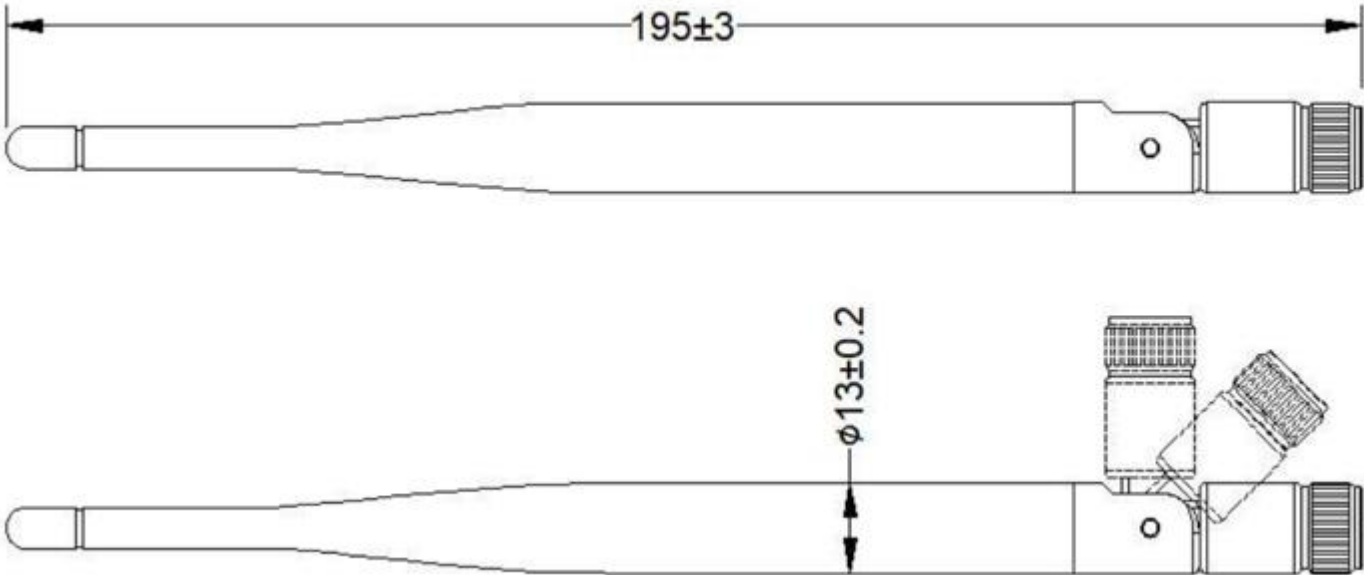
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Revision Record

Version	Date	Engineer	Revision Content
A1	2026-03-05	LID	Initial release

3. Size



4. Product Specifications

1. Product Technical Parameters

Model			
RF Parameters			
Frequency Range (MHz)	915	Bandwidth (MHz)	30
VSWR			
Gain (dBi)	Max 1.81	Max Input Power (W)	50
Input Impedance (ohm)			
Mechanical Parameters			
Antenna Size (mm)			
Environmental Parameters			
Operating Temperature	-40 to +70	Storage Temperature	-45 to +75

5. Rubber Rod Product View



6. Cable Specifications

1.13 Cable Structure Diagram



Structural Parameters		
Item	Material	Diameter (mm)
1. Inner Conductor	Tinned copper wire	7/0.08 +- 0.02
2. Insulator	Solid polyethylene (PE)	0.66 +- 0.02
3. Outer Conductor	Tinned copper wire	0.88 +- 0.05
4. Jacket	FEP	1.13 +- 0.05

7. Environmental Tests

7.1 High / Low Temperature and Constant Humidity Test

Part No.	010001-0213-00195	Product	915 Rubber Rod Exit Cable
Test Item	High temperature, low temperature, constant humidity	Quantity	5 PCS

Acceptance Criteria:

Acceptance: no plating peeling, cracks, wrinkles, discoloration, deformation, or adhesive failure. Routine inspection is required after recovery at room temperature.

Test Name	Conditions	Method	Result
High Temperature	80 +/- 3 C; soak 1 h; duration 2 h; recovery 1 h	Place sample in chamber, hold at temperature, recover 1 h, then inspect.	PASS
Low Temperature	-40 +/- 3 C; soak 1 h; duration 2 h; recovery 1 h	Place sample in chamber, hold at temperature, recover 1 h, then inspect.	PASS
Constant Humidity	+40 +/- 3 C; RH 90-95%; duration 21 h; recovery 1 h	Place sample in chamber, hold temperature and humidity, recover 1 h, then inspect.	PASS

7.2 Free Drop Test

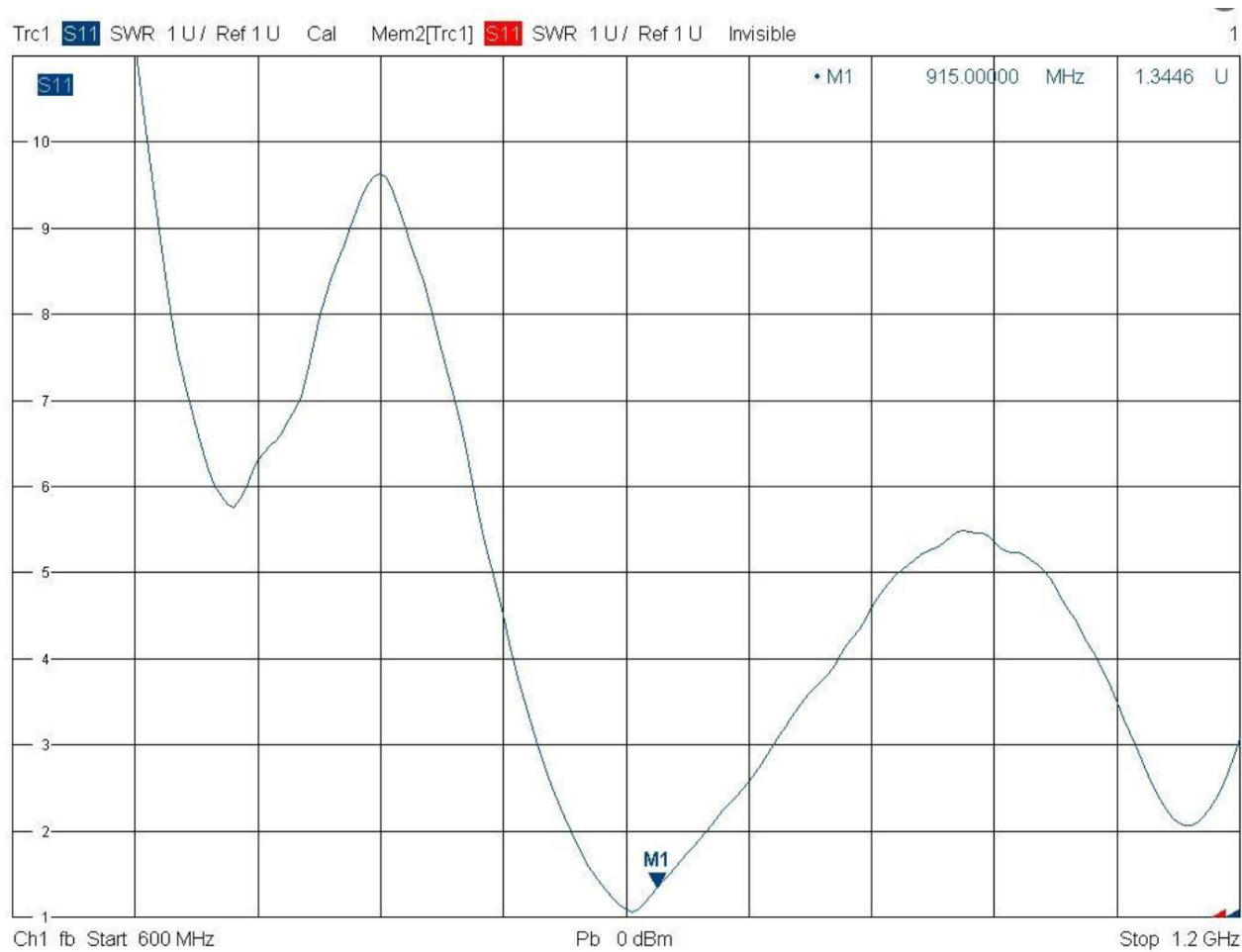
Part No.	010001-0213-00195	Product	915 Rubber Rod Exit Cable
Test Item	Free drop test	Quantity	5 PCS
Acceptance	No falling parts, cracks, or visible deformation after a 1 m drop.		
Drop Height	1000 mm	Method	Front and back side drop, 2 times
Procedure	Drop the sample from 1000 mm, then perform routine inspection.	Result	PASS

7.3 Salt Spray Test

Part No.	010001-0213-00195	Product	915 Rubber Rod Exit Cable
Test Item	Salt spray test	Quantity	5 PCS
Acceptance	No plating peeling, rust, corrosion, or oxidation after test.		
NaCl Concentration	40-60 g / 1 kg	Air Pressure	1.0 +- 0.01 kgf/cm2
pH Value	6.5-7.2	Spray Volume	1.0-2.0 ml / 80 cm2 / h
Chamber Temp.	35 +- 1 C	Pressure Barrel Temp.	47 +- 1 C
Test Duration	24 h	Result	PASS

Procedure: set the salt spray tester to the specified conditions, place samples for 24 hours, rinse with clean water after test, visually inspect, then carry out routine inspection.

8. VSWR Test Graph

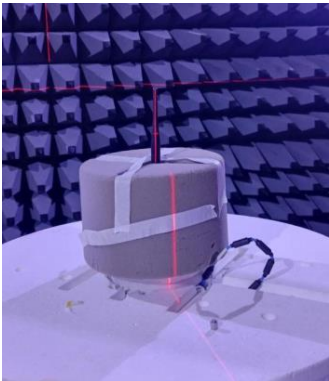


9. OTA Test Graphs

9.1 Chamber Test Setup



9.2 Chamber Instrument Photo

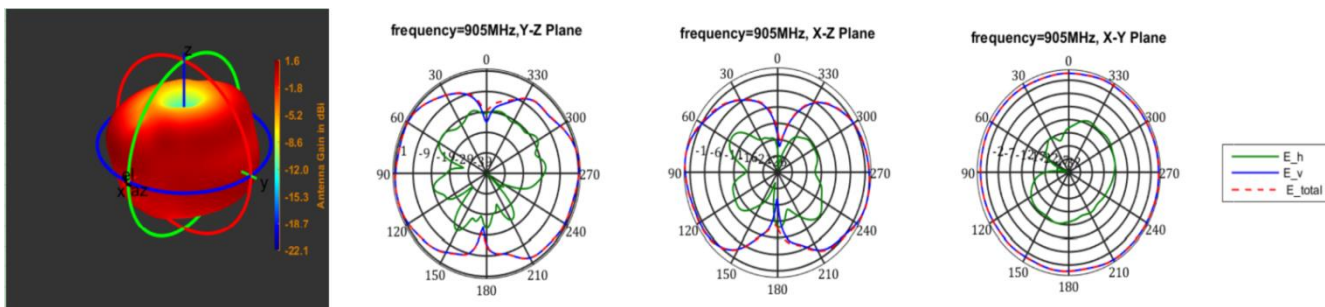


9.3 OTA Chamber Passive Data

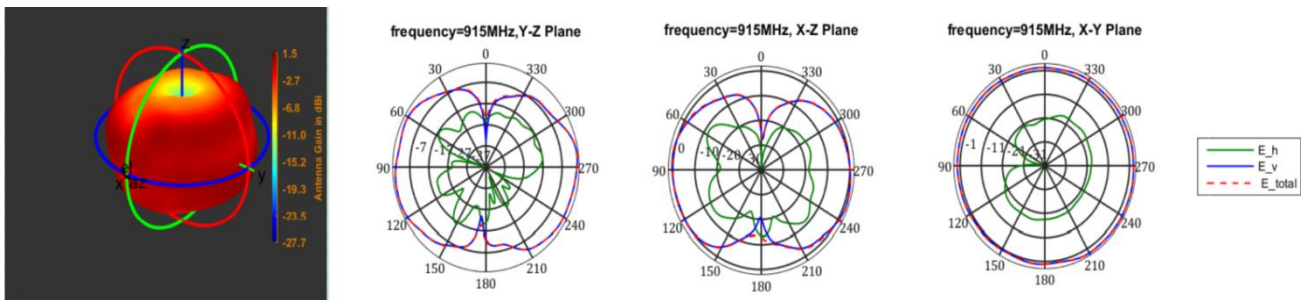
Frequency (MHz)	Directivity (dB)	Gain (dB)	Efficiency (%)
900	2.4072	1.7347	85.6549
905	2.4254	1.6177	83.0287
910	2.3966	1.6053	83.3431
915	2.5352	1.4897	78.6058
920	2.599	1.6333	80.0626
925	2.5746	1.8106	83.868
930	2.7616	1.8091	81.2353

9.4 Chamber Test Graph

905MHZ



915MHZ



925MHZ

