

PRODUCT SPECIFICATION

Customer:

Customer's part number:

Product description: 860~930 Antenna

Uni Link's part number: YNX-JT860/930-3-021

Issue Date: 2021-03-31

Note: 860~930 RPSMA-J ROHS

一、catalogue

1、PRODUCT TECHNICAL SPECIFICATION

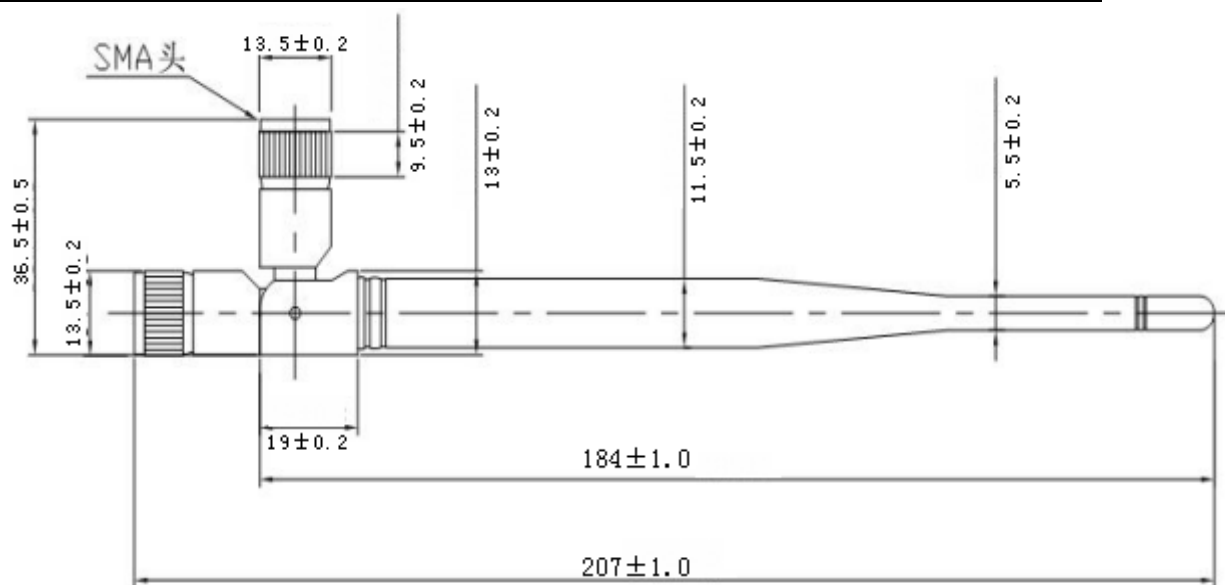
Electrical Specifications	
Frequency Range (MHz)	860~930
tape width (Mhz)	70
Input Impedence (Ω)	50
V.S.W.R	≤ 1.8
Gain (dBi)	3 ± 0.3
Polarization Type	Vertical
Power Capacity (w)	50
Mechanical Specifications	
Antenna Length (mm)	$\phi 13.5 \times 210 \text{mm}$
Radiator	copper
Connect Type	RPSMA-J

Working Temp(°C)	-40°C~85°C
Storing Temperature	-45°C~85°C
Radome Color	black
Weight (g)	7

2、PRODUCT PICTURE



3、PRODUCT SPECIFICATION



4、ELECTRIC APPLIANCE CHARACTERISTICS

ITEM		TEST CONDITION	SPECIFICATION
1	Return Loss	Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Return Loss Characteristics.	

2	VSWR	Using Agilent Network Analyzer 8753ET to Measure Antenna S11 VSWR Characteristics.	
3	Smith chart	Using Agilent Network Analyzer 8753ET to Measure Antenna S11 Gain Response Characteristics.	
4	Gain response	Using Agilent Network Analyzer 8753ET to Measure Antenna S21 Gain Response Characteristics.	

5、MECHANICAL CHARACTERISTICS

1	BENDING TEST	The load on the wire end of 30CM away from the joint was 120g. After fixing the joint, the remote pendulum test was carried out. The remote pendulum Angle was 60 degrees, and the characteristics were tested after 1000 times of remote pendulum.	After 1000 times of remote pendulum test, there is no phenomenon showing the damage of electrical performance.
---	--------------	---	--

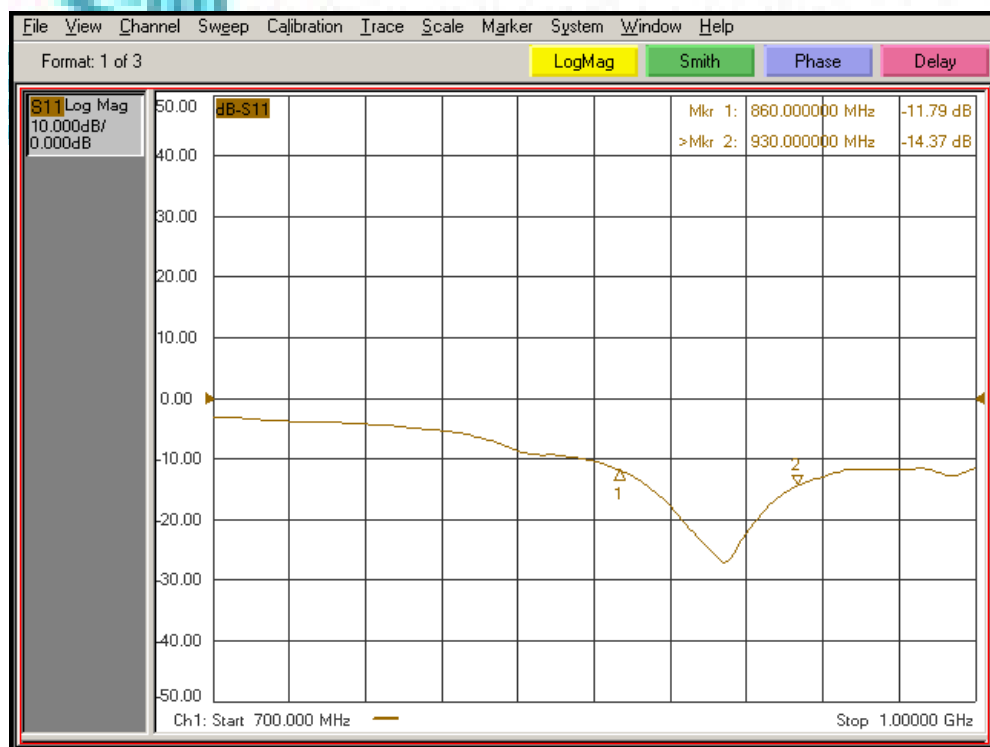
2	STRENG TEST	A 15 lb static load is applied to the bottom of the pay-off end for one minute.	No signs of mechanical or electrical failure.
3	PULLING FORCE	Tension test between tension gauge joints and wires.	Can withstand the tension of 7Kg without any phenomenon to show the damage of electrical performance.
4	VIBRATION TEST	At the amplitude of 1.10mm and the vibration frequency of 33.30Hz/sec, it vibrated for 120 minutes in the X direction, 120 minutes in the Y direction and 240 minutes in the Z direction.	There is no sign of damage to electrical performance.

6、DURABILITY

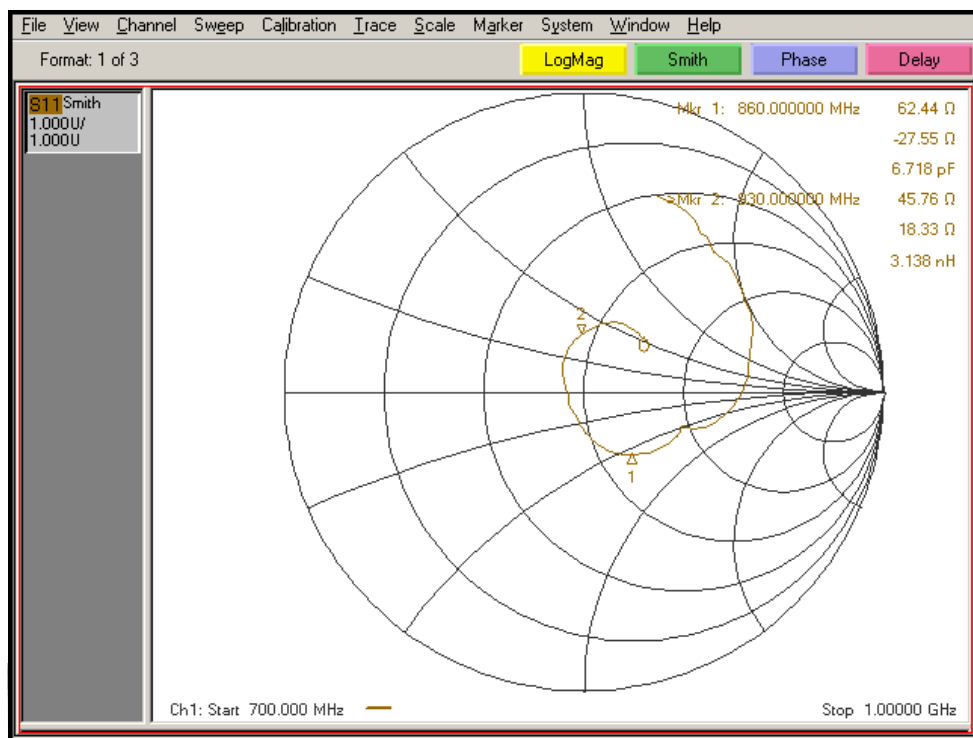
1	SAIT SPRAY TEST	Saltwater spray test: according to GB1266-86 standard Distilled water: a single distillation PH6.5 ~ 7 Spray volume: 1.4me80cm ² /h Compressed air pressure: 1Kgf/ cm ² Test relative degree: 98° Temperature: 45° to 47° Pressure temperature: 35° Test time: 96hr	
---	-----------------	--	--

2	HEAT TEST	85+2℃ for 96 hours, after keep in normal condition for 30min the to test.	All characteristic range is 30% of the initial value
3	HUMIDITY TEST	40+2℃ 90-95%RH for 96hours, after keep in normal condition for 30min the to test.	
4	COLD TEST	-40+2℃ for 96hours, after keep in normal condition for 30min the to test.	

7. Return Loss



8. Smith chart



9.VSWR

