



Antenna Datasheet

Rubber Antenna

Model No:

BW915JWX108-9KK

Description:

915MHz Rubber antenna SMA inner screw inner hole interface

Features:

900-925MHz Full Band

SMA Female connector

Structure: 360° Omnidirectional Radiation

Dimension: 108mm x Ø 10mm

RoHS & REACH Complaint



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BW915JWX108-9KK

Part Number Description

BW	Company	Bat Wireless
915	Frequency	915MHz
J	Name	Rubber Duck
W	Type	External
X	Constant	X
108-9	Dimensions	108x9mm
K	Feature	Foldable
K	Connector	SMA Female

1. Description

The Batwing Wireless BW915JWX108-9KK is a high-performance omnidirectional antenna. This antenna, combines high performance with portability, is designed for devices that need to be moved frequently or set up temporarily. Made with a high-quality plastic case, it is foldable and excellent signal reception and transmission capabilities, providing stable and reliable support for device connections. Its compact and lightweight design makes it easy to install and carry.

Classic application scenarios:

Industry 4.0: Real-time monitoring
of CNC machine tools

Smart medical care: Surgical robot
control

Intelligent transportation: Rail contact
network monitoring

Energy Internet of Things:

Substation patrol inspection robot

Bat Wireless provides customized services to optimize your devices. We have a mature R&D team that can quickly respond to meet your needs. If you have any, please contact our sales and FAE.



2. Specification

Parameters	Typ.	Unites	Notes
Electrical Characteristics			
Antenna Type	Dipole Antenna		
Frequency Range	915	MHz	
Input Impedence	50	Ω	
V.S.W.R	<2		
Gain	-1.73	dBi	
Polarization Type	Vertical		
Power Capacity	50	W	
Lightning Protection	-		
DC Voltage	-	V	
Radiator	-		
Mechanical Characteristics			
Dimensions	108 x $\varnothing$ 10	mm	
Connector Type	SMA Internal threaded hole		
Cable Type	-		
Cable Length	-	mm	
Mount way	turn		
Color	Black		
Material	ABS		
Weight	/	g	
Environmental Characteristics			
Waterproof Rating	-		
ROHS Complaint	complies with		
Operating Temperature	-45~ +85	$^{\circ}\text{C}$	
Storage Temperature	-45~ +85	$^{\circ}\text{C}$	



3. Dimensions



The picture is for reference only, subject to the actual product.



4. Mechanical Drawing

[illegible]



5. Test Equipment



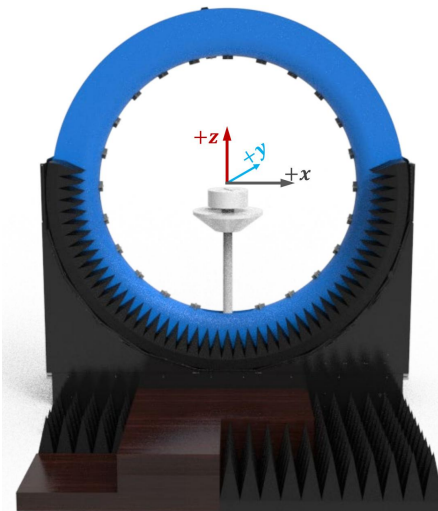
Keysight/E5071C



R&S/CMW500



R&S/SMBV100B



DT-3500 Datasheet /

Specification:

Specification:	Description
Test Frequency :	400MHz-8.5GMHz
System Size :	L*W*H=4*3.5*3.5m
Number of Probes :	23 (Probe) + 1 (link)
Interval Angle :	15°
Sampling Diameter :	2200mm
Carring Capacity :	≤40kg

Testing Capability

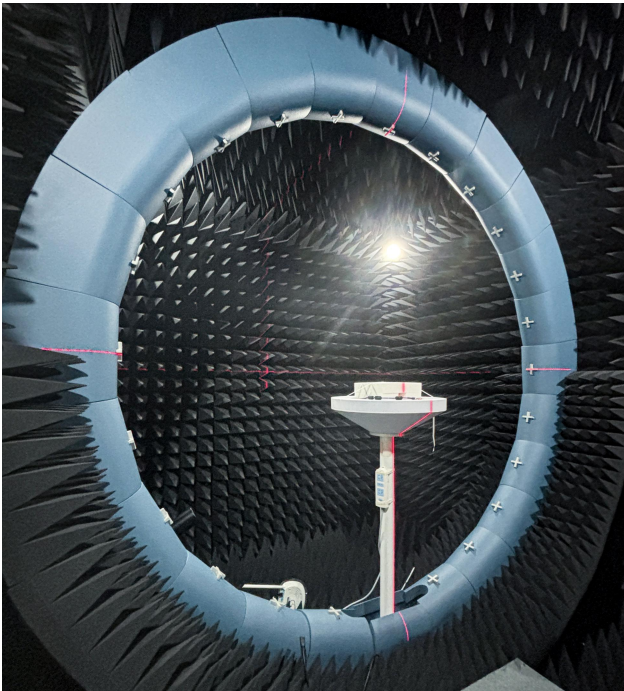
Description

Active measurement

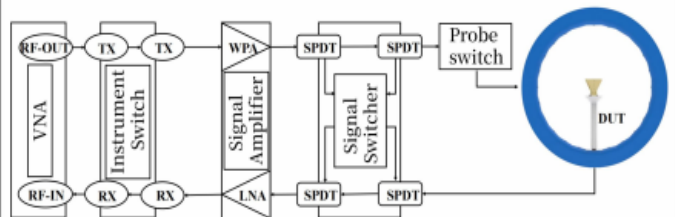
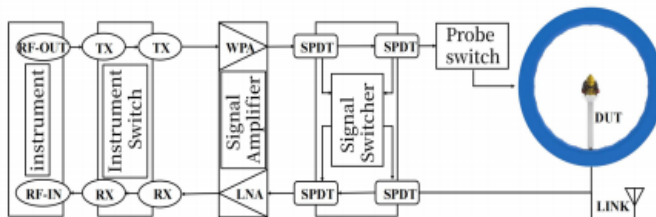
Capability : TRP、TIS、EIRP、EIS,. etc
Mode : 2G/3G/4G/5G、Wi-Fi b/g/n/a/ac/ax、BT、NB-IOT、Cat-M (eMTC)、GPS/BEIDOU/GLONASS、ZigBee、LoRa(Non-Signaling),.etc

Passive measurement

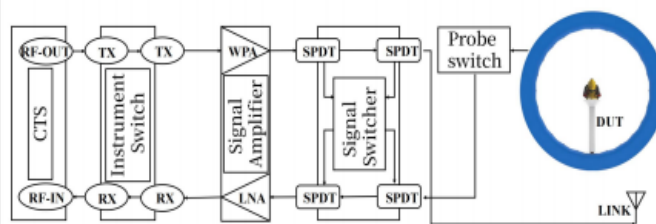
Test category : Gain、Efficiency、2D pattern、3D pattern、Pattern roundness、Axial Ratio、ECC,Phase center,. etc
Polarization : Circular polarization, linear polarization, elliptical polarization



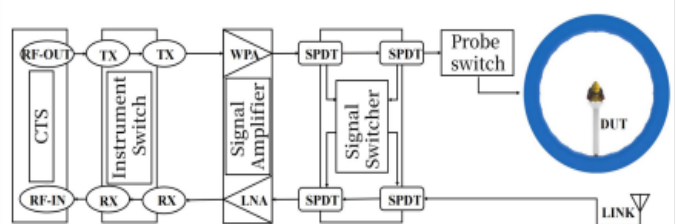
RF Link diagram of multi probe spherical near-field testing system



RF Link Overview



RF Link of Passive measurement

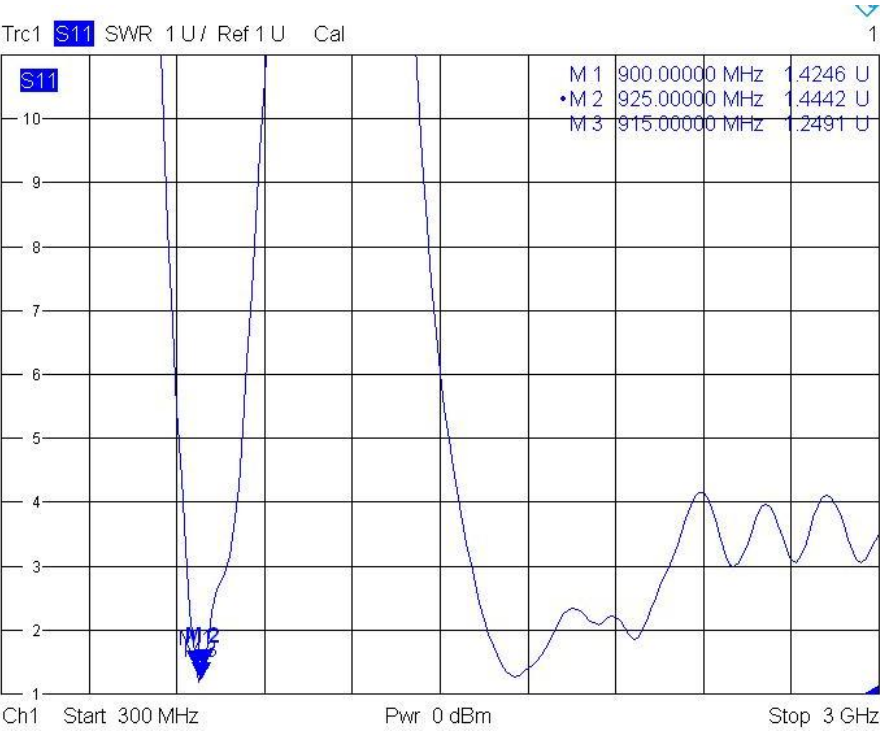




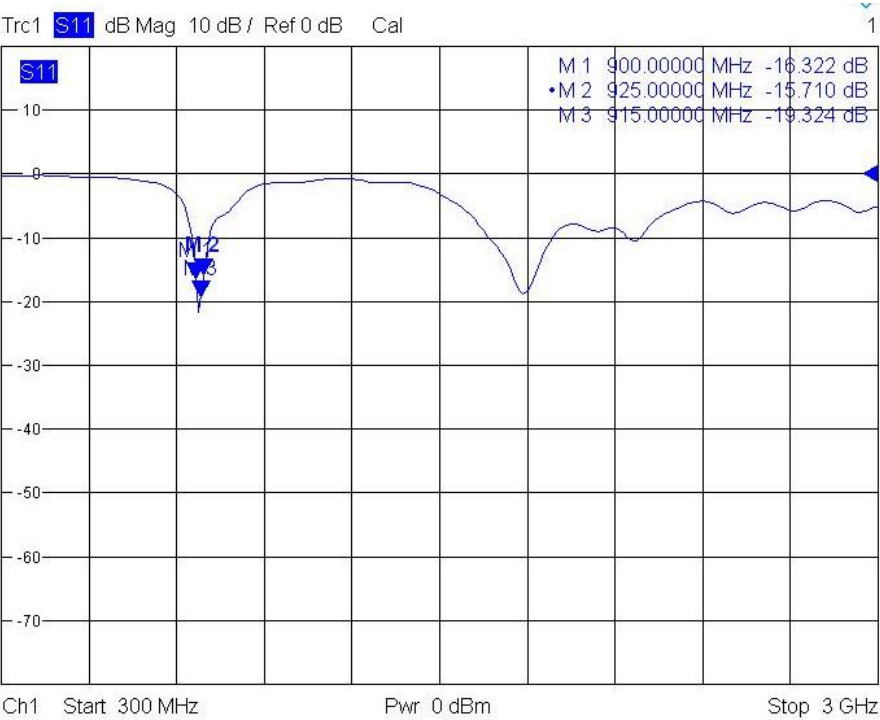
6.

Performance Data

6.1 VSWR



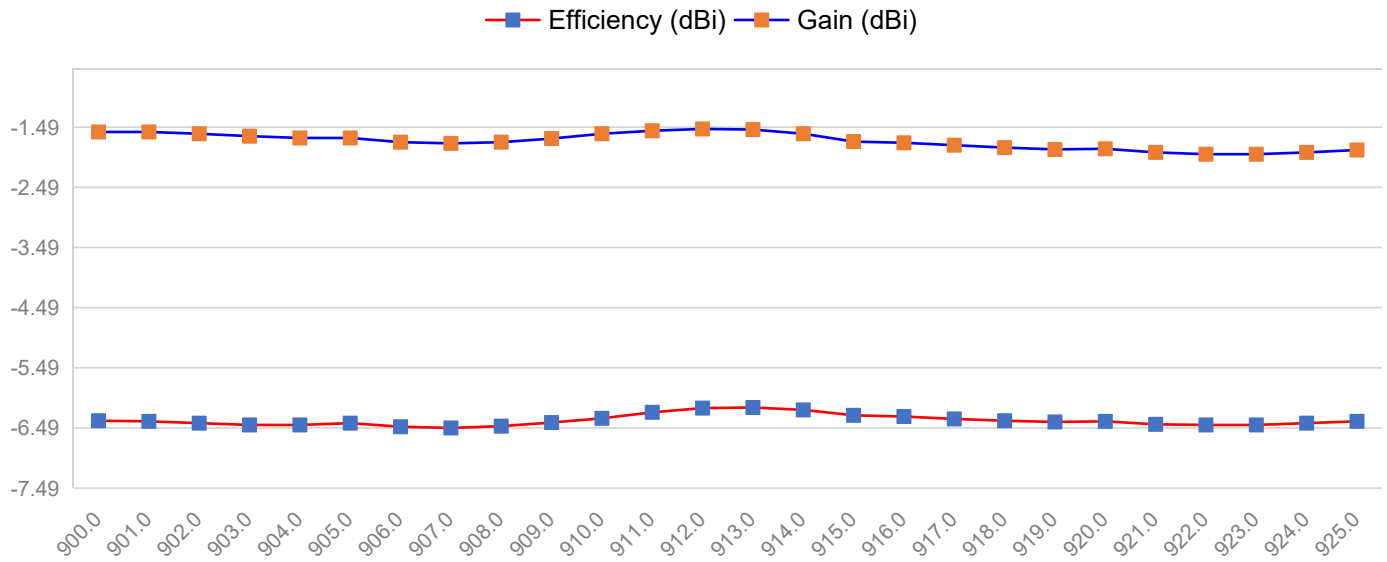
6.2 Return Loss



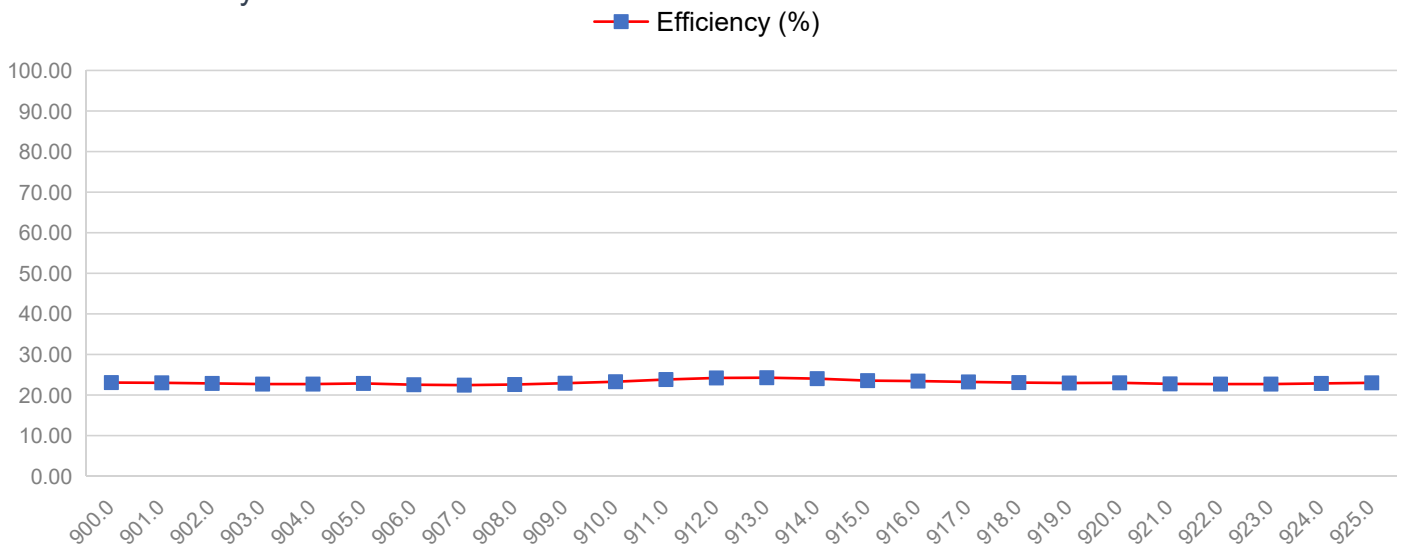


6. Performance Data

6.3 Gain



6.4 Efficiency



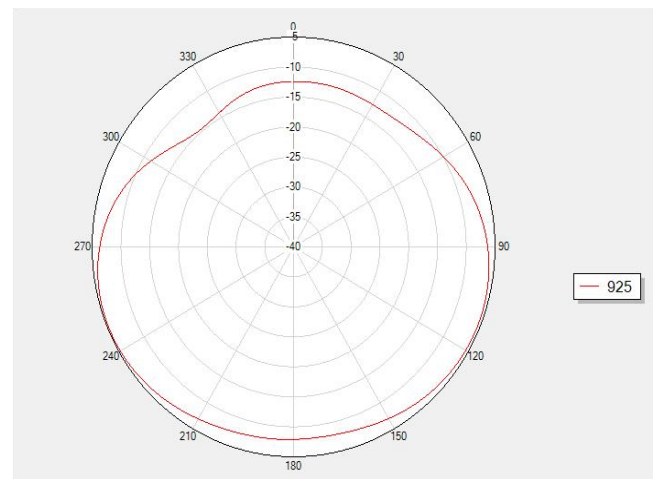
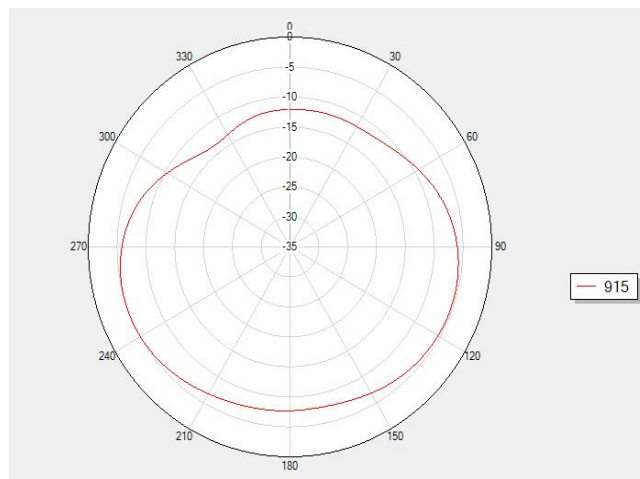
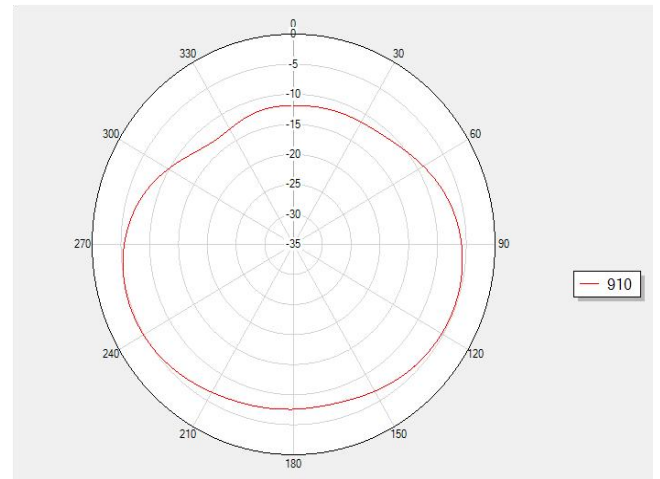
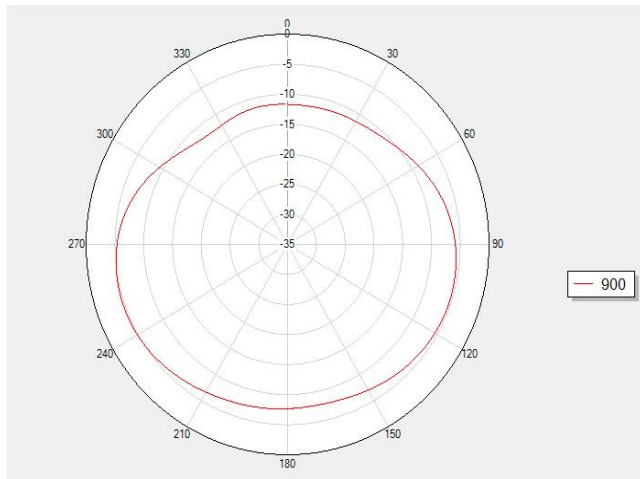
6.3 Gain (dBi)/Efficiency (%)

Frequency (MHz)	900	915	925
Gain (dBi)	-1.57	-1.73	-1.87
Efficiency (%)	23.07	23.55	23.01



7. Radiation Patterns

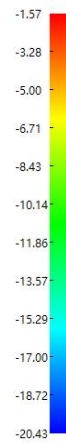
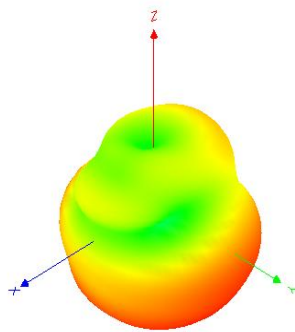
7.1 2D Radiation Patterns



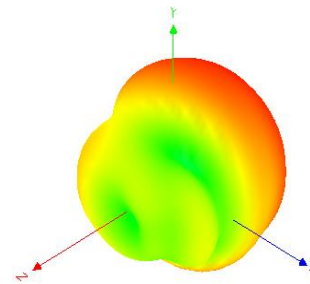


7.2 3D Radiation Patterns

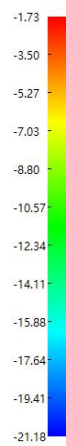
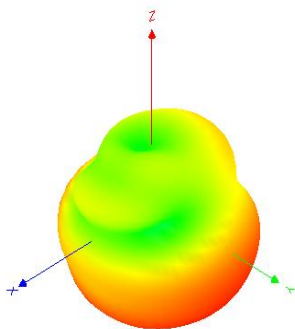
Frequency (MHz) : 900



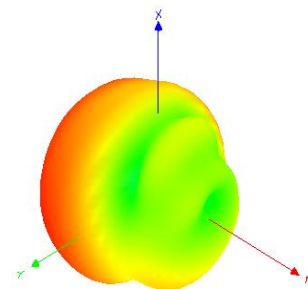
Frequency (MHz) : 910



Frequency (MHz) : 915



Frequency (MHz) : 925





Documentation	
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Author :	Carly

Change Log	



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