antennas such as FPC\ceramic\metal\glue stick\suction cup\cabinet etc.

Product Specification Recognition

Product specifications acknowledgment

Recognize vendors:

_____

(Recognized manufacturers)

Manufacturer:_____

Shenzhen Bat Wireless Technology Co.

(Manufacturer)

Product Name: SMA Antenna Connector

(Description)

Product Selection Chart:

(Product Type)

model number	clarification	note
BWSMA-KE-Z001	Bore of external screw	

Vendor acknowledgement signature field		
tabulator	**checker**	**approver**

Customer acknowledgement column	
checker	**approver**

	R&D, production and sales of RF antennas such as FPC\ceramic\metal\glue stick\suction cup\cabinet etc.

R&D, production and sales of RF antennas such as FPC\ceramic\metal\glue stick\suction cup\cabinet etc.

1.1 Specifications

Model Antennas Type	BWSMA-KE-Z001
Impendence (Ω)	50Ω
Voltage Standing Wave Ratio V.S.W.R	Straight flexible cable <1.15+0.02f (GHZ)
Frequenc Range(MHz)	0-12.4G (flexible cable)
Operating Voltage DC Voltage (V)	335V max
Dielectric Withstand Voltage(V)	1000Vrms
Contact ()	Inner conductor <3mOhm Outer conductor <2mOhm
Insulation resistance	>5000 megohms
Insert Loss	0.15dB (6GHz)
RF leakage	-60dB/-90dB (flexible/semi-rigid cable)@2-3GHz
Durability(mating)	500 times
PLUG ID/JACK OD	6.5mm/5.4mm
Shell shell	Hard gold plating of brass or passivation of stainless steel surfaces
contact pin	Hard gold plated brass
Socket socket	Beryllium bronze hard gold plated
insulator	polytetrafluoroethylene
sealing	silicone rubber
Crimp ferrule	Copper Alloy Nickel Plating
Weight(g)	None
OperatingTemperature(℃)	-65~+165 (PE) CABLE -40~+85)
Standard APPLICABLE STANDARD	mil-c-39012, iec169-15, cecc22110

1.2 Antenna Picture

R&D, production and sales of RF antennas such as FPC\ceramic\metal\glue
binet etc.

Model No. above: BWSMA-KE-Z001

***Note: Due to the sensitive nature of the antenna function, please notify us of any changes in the organization surrounding the subject for evaluation.**

2.Electrical Specification

2.1 Test Equipment

A.VSWR and input impedance: Agilent 8753/E5071 Network Analyzer

B.Antenna gain and efficiency: ETS three-dimensional anechoic chamber

2.2 Test Setup

2.2.1 Frequency Range

2.2.2 VSWR

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).

Figure.1

2.2.3 Radiation pattern and Gain

A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2). The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).

B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).

C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figures.

4 and 5).

R&D, production and sales of RF antennas such as FPC\ceramic\metal\glue stick\suction cup\cabinet etc.

Figure.2

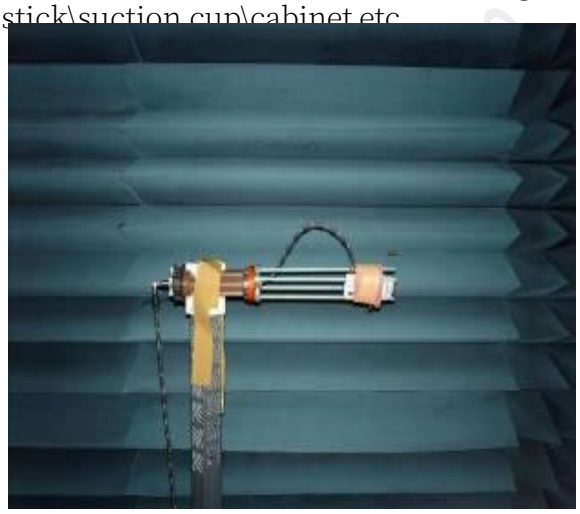


Figure.3

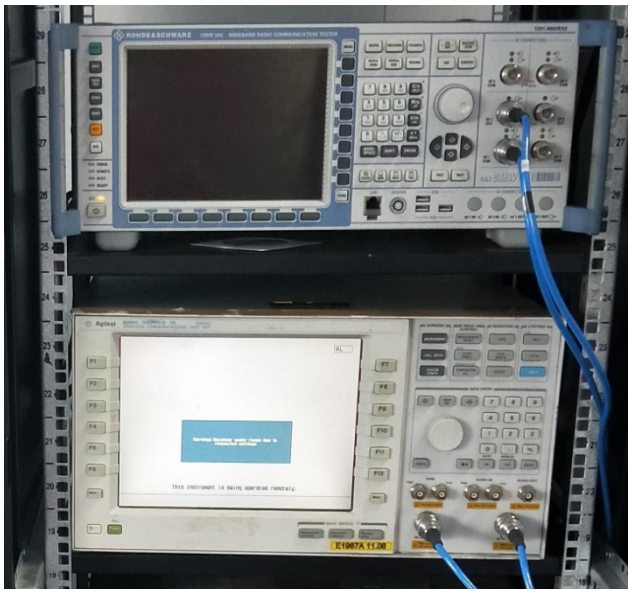


Figure.4

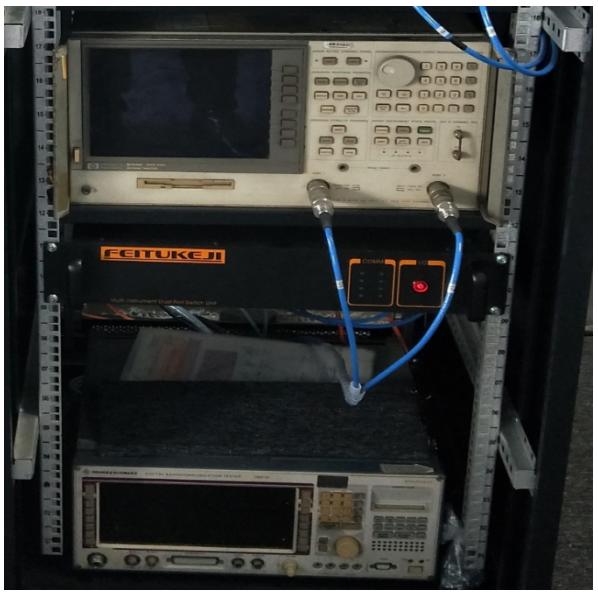
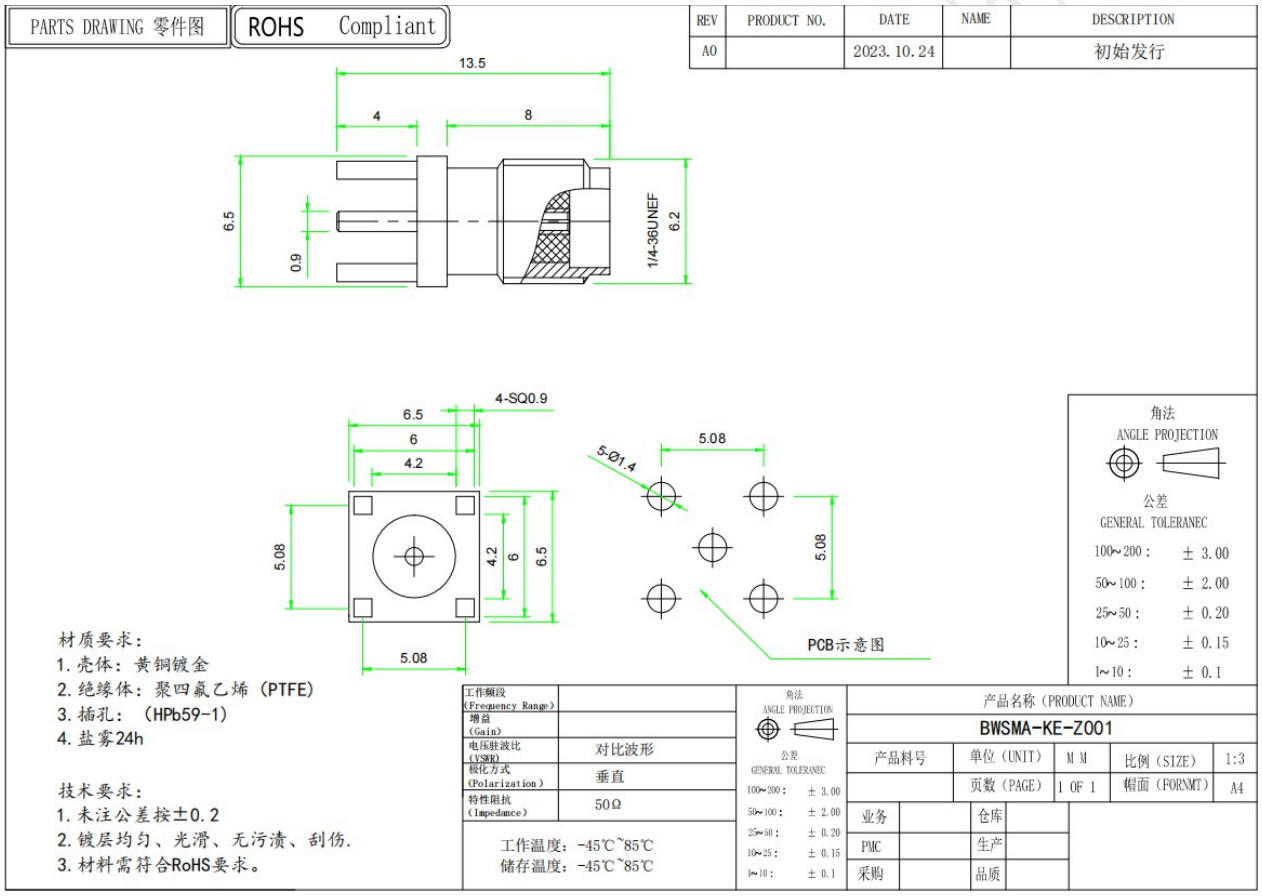


Figure.5

R&D, production and sales of RF antennas such as FPC\ceramic\metal\glue stick\suction cup\cabinet etc.

4. Mechanical Specification

4.1 Assembly Drawing



5. Disclaimer:

In line with the principle of providing users with better service, Shenzhen Bat Wireless Technology Limited Company (hereinafter referred to as " Bat Wireless ") in this manual as far as possible for the user to present detailed and accurate product information. However, as the contents of this manual are time-sensitive, Bat Wireless cannot guarantee the timeliness and applicability of this document at any time. Bat Wireless reserves the right to update the contents of this manual without notice. In order to get the latest version of the information, please visit the official website of Bat Wireless or contact the staff of Bat Wireless regularly. Thank you for your tolerance and support!

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