



## **Z121-BWFSJ30 Product Data Sheet**

**2.4/5.8GHz Dual-Band Patch Antenna for Vehicle  
SMA-J Connector**

**Chengdu Ziisor Technology Co., Ltd**

## I. Product Introduction

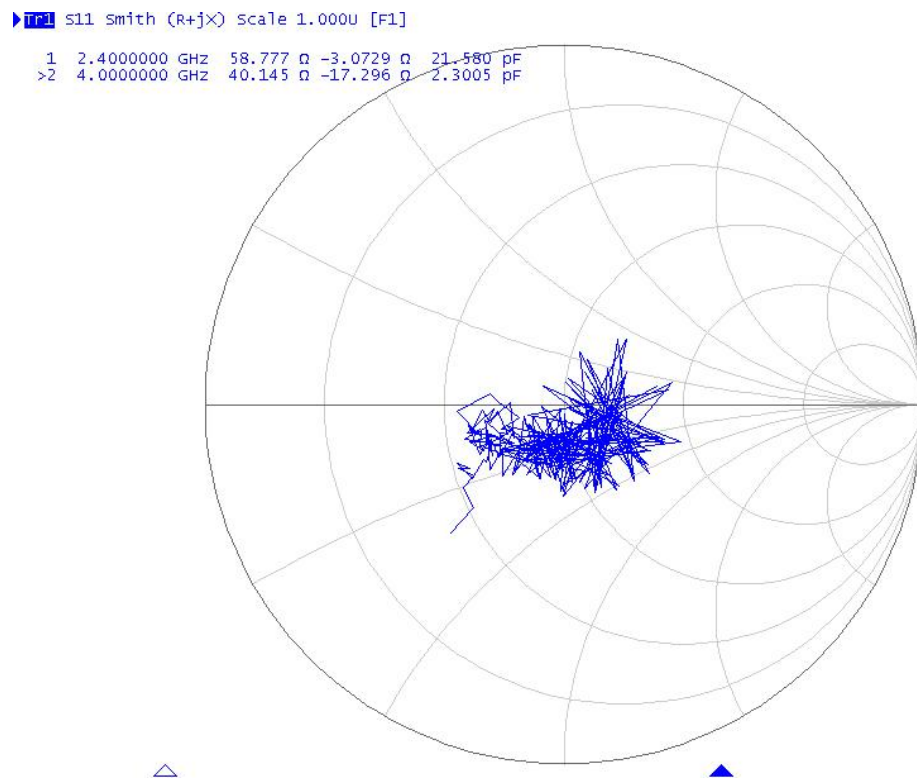
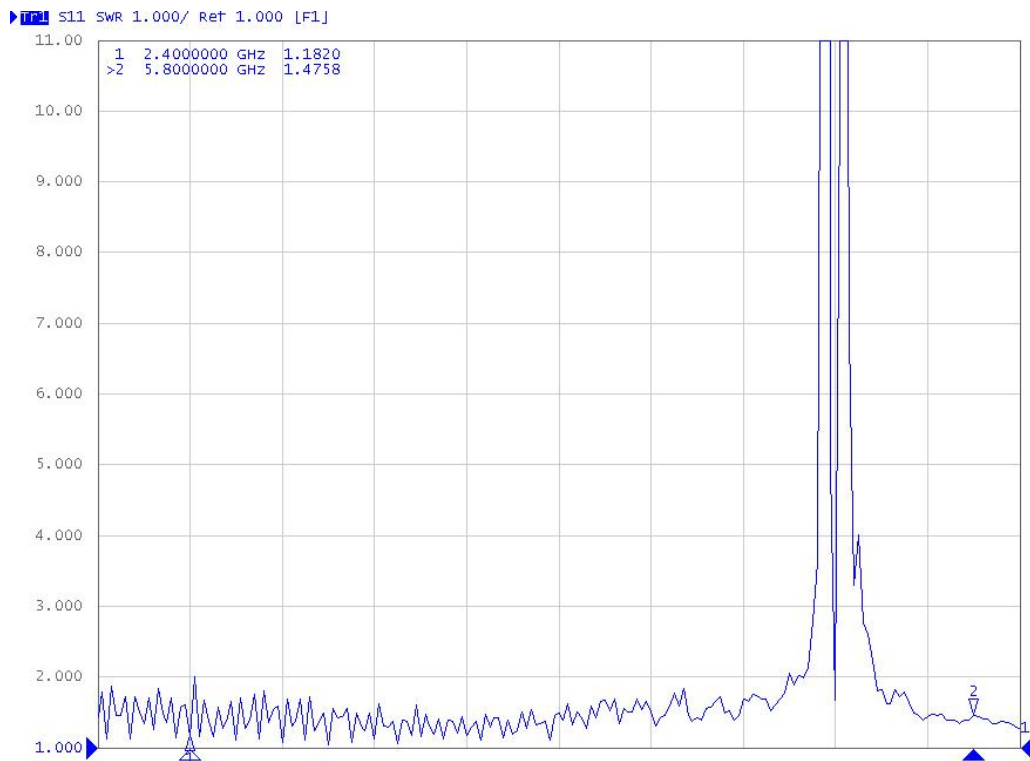
Z121-BWFSJ30 is a 2.4/5.8GHz dual-band patch antenna for vehicle. Dimension of the antenna is 115mm×22mm×5.5mm with a SMA-J connector (SMA inner screw thread and inner needle). With a double-side adhesive tape, the antenna can be installed vertically or horizontally and enjoys the advantages of simple structure, light weight and convenient use. It is specially designed for vehicle wireless communication, and applied to such devices with frequency of 2.4/5.8GHz as broadband wireless communication system, wireless module and so on.

## II. Specification and Parameters

Physical Parameters	
Frequency	2.4G/5.8GHz
Bandwidth	2.4-2.5GHz;4.9-5.9GHz
Gain	5dBi
SWR	≤1.5
Polarization	Linear
Radiation Direction	Omnidirectional
Input Impedance	50 Ω
Power Capacity	20W
Other Parameters	
Material	ABS
Dimension	115mm×22mm×5.5mm
Feeder Material	RG174
Feeder Length	3m
Total Weight	50g
Connector	SMA-J (SMA inner screw thread and inner needle)
Working Temperature	-40℃～+85℃
Storage Temperature	-40℃～+85℃



### III. Testing



## IV. FAQ

- Antenna frequency shall be matched with that of the wireless devices, or the communication will be affected;
- Diffraction performance will be better with lower communication frequency and longer wave;
- Communication distance will be shorter if there is any straight-line barrier;
- Please be noted of the antenna radiation direction. Incorrect direction by installation will result in short communication distance;
- As radio wave may be absorbed by the ground, result will be affected if tested close to ground. It is suggested to test at a higher place;
- As radio wave can be highly absorbed by the ocean water, result will be affected if tested close to the sea;
- Signal will be seriously weakened if the antenna is put close to metal or inside metal shell;
- Lower impedance matching of antenna and communication devices will result in bad communication.

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