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DATA SHEET

P/N: P081002-195B13U1S

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Version Information

Version	Date	Author	Note
A0	February 20, 2021	Rebecca	Initial Draft

1. Product Description

Model P081002-195B13U1S is a single-band antenna which has features of easy integration, can be directly connected to the product. The connector can be customized according to customer's request. This antenna was designed to accommodate most WLAN applications, such as access points, routers, and gateways.

2. Features

The model P081002-195B13U1S antenna is defined by following features:

- IEEE 802.11 b/g/n/ax standards
- 1.8dBi peak gain@0.87GHz
- High Efficiency
- Quick Integration



Figure 1: Model P081002-195B13U1S Antenna

3. Overall Performance

CHARACTERISTICS	SPEC
Standard	IEEE 802.11 b/g/n/ax
Frequency Range	860-930MHz
Peak Gain	1.8dBi@0.87GHz
VSWR	<2.5
Power Handling	30 dBm
Feed Impedance	50 ohms
Antenna Dimensions	135*51.35*16.72mm
Interface	U.FL compatible connector
Operating Temperature	-30 ° C to +85° C
Humidity Range	5% to 95% non-condensing
RF Cable	RF1.13

4. Product Characteristics

Measuring the return loss & radiation pattern of P081002-195B13U1S in a non-interference environment in a customer's equipment.

4.1 Return Loss



Figure 2: Model P081002-195B13U1S Return Loss

4.2 Radiation Pattern

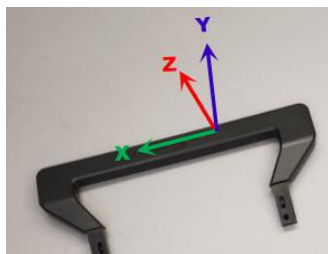


Figure 3: Model P081002-195B13U1S Measurement Axes

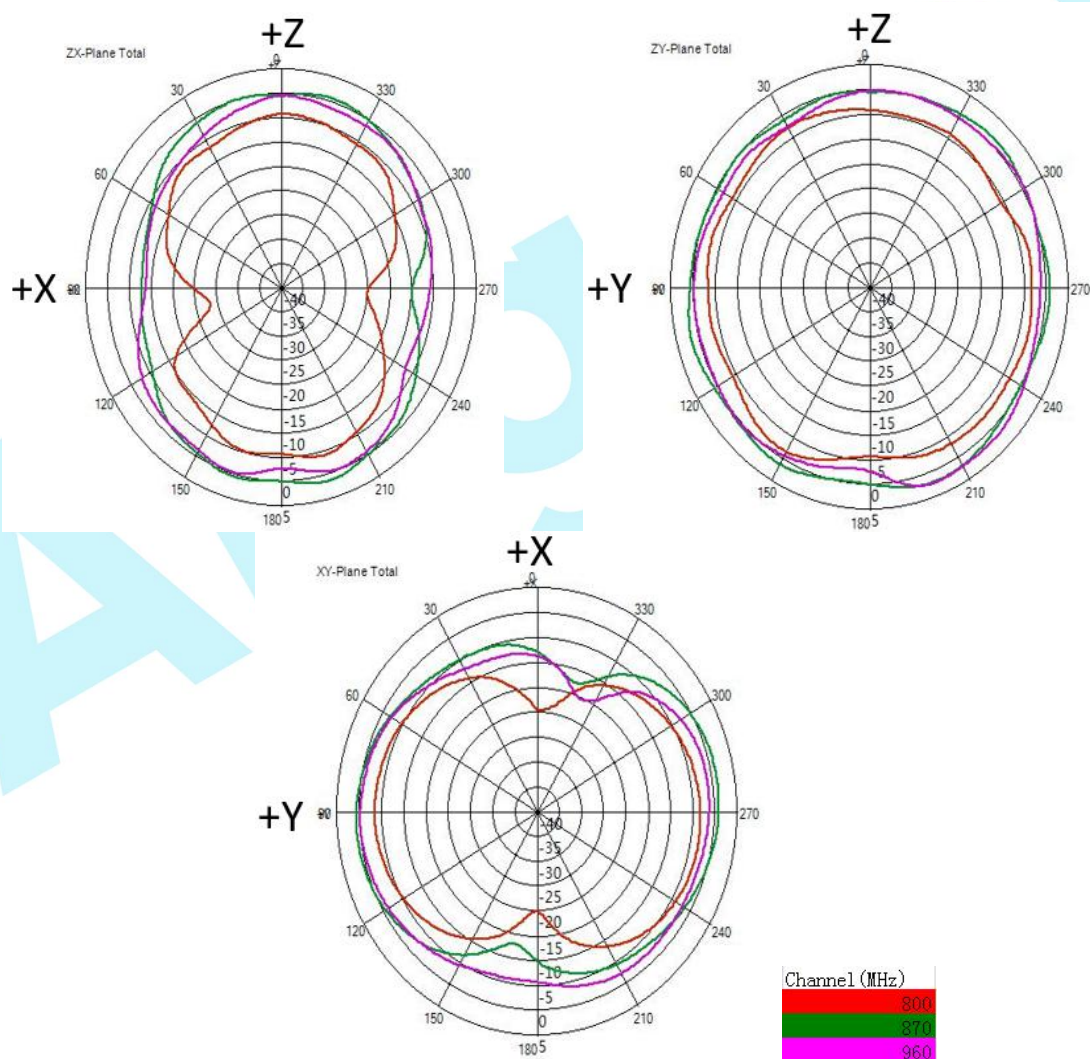


Figure 4: Model P081002-195B13U1S Radiation Patterns

5. Product Drawing

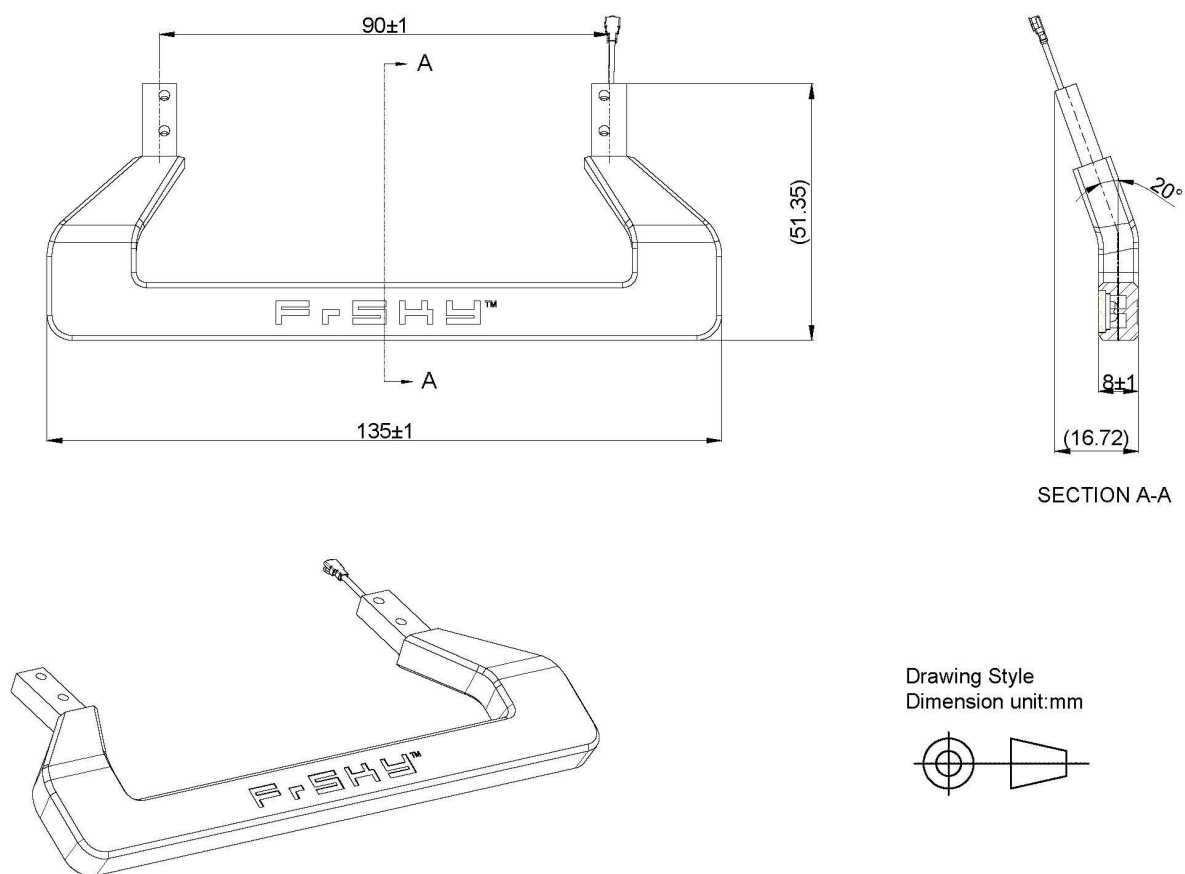


Figure 6: Model P081002-195B13U1S Dimensions

6. ROHS

Model P081002-195B13U1S antenna is RoHS compliant.

7. Cable Data Sheet

Item	Specification	
Cable type	OD1.13	
Impedance	50 ± 3 ohms	
Inner conductor	Material	Tin-coated copper
	Conductor numbers	7
	Conductor size	0.08 mm
	Outer diameter	0.24 ± 0.02 mm
Dielectric layer	Material	FEP
	Color	Clear
	Average thickness	0.22 mm
	Diameter	0.7 ± 0.03 mm
Braid (shielding)	Material	Tin-coated copper
	Conductor size :total / O.D. Of every wire(mm)	16*4/0.05 mm
	Coverage	90%± 5%
	Diameter	0.92 ± 0.05 mm
Outer cover	Material	FEP
	Color	Black
	Average thickness	0.10 mm
	Diameter	1.13 ± 0.05 mm
VSWR testing	< 1.3@0~6GHz	
Cable loss (dB/meter)	1GHz	≤2.2
	2GHz	≤3.1
	3GHz	≤3.8
	4GHz	≤4.4
	5GHz	≤4.9
	6GHz	≤5.4
Operating temperature	-55℃~+150℃	

Note:

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