

Angeei

DATA SHEET

Innovation

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Smart

Customer Name: ZTE

Product Model: E1320

Customer P/N:

Specifications: 5G 外置单频天线, 5dBi, 1.37 黑色双锡线,
L=190mm

Angeei P/N: DP5050AX01-190B17U7S

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Version Information

Version	Date	Author	Note
A0	July 2, 2021	Rebecca	Initial Draft

1. Product Description

DP5050AX01-190B17U7S product is designed with patented technology. DP5050AX01-190B17U7S 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 DP5050AX01-190B17U7S Antenna is defined by following features:

- IEEE 802.11 a/n/ac/ax standards
- 5.7dBi peak gain@5.18GHz, 5.2dBi peak gain@5.32GHz
5.0dBi peak gain@5.5GHz, 4.9dBi peak gain@5.6GHz
5.1dBi peak gain@5.7GHz,4.8dBi peak gain@5.785GHz
- High Efficiency
- Quick Integration

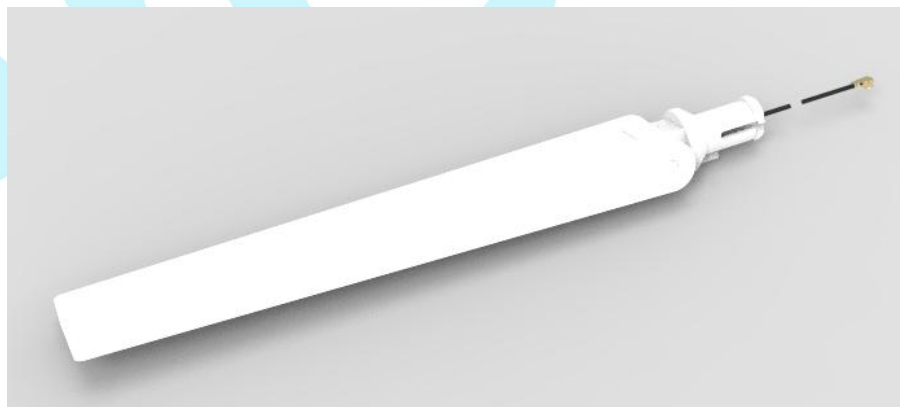


Figure1: DP5050AX01-190B17U7S Antenna

3. Overall Performance

CHARACTERISTICS	SPEC
Standard	IEEE 802.11 a/n/ac/ax
Frequency Range	5.15-5.85GHz
Peak Gain	5.7dBi@5.18GHz , 5.2dBi@5.32GHz 5.0dBi@5.5GHz , 4.9dBi@5.6GHz 5.1dBi@5.7GHz, 4.8dBi@5.785GHz
VSWR	<2
Efficiency	71.6%@5.18GHz, 72.1%@5.32GHz 72.3%@5.5GHz, 72.6%@5.6GHz 73.2%@5.7GHz, 72.9%@5.785GHz
Power Handling	30 dBm
Feed Impedance	50 ohms
Antenna Dimensions	161.42*11.61mm
Interface	U.FL compatible connector
Operating Temperature	-30 ° C to +75 ° C
Humidity Range	5% to 95% non-condensing
RF Cable	RF1.37

4. Product Characteristics

Measuring the VSWR & radiation pattern of DP5050AS01-190B17U7S in a non-interference environment.

4.1 VSWR

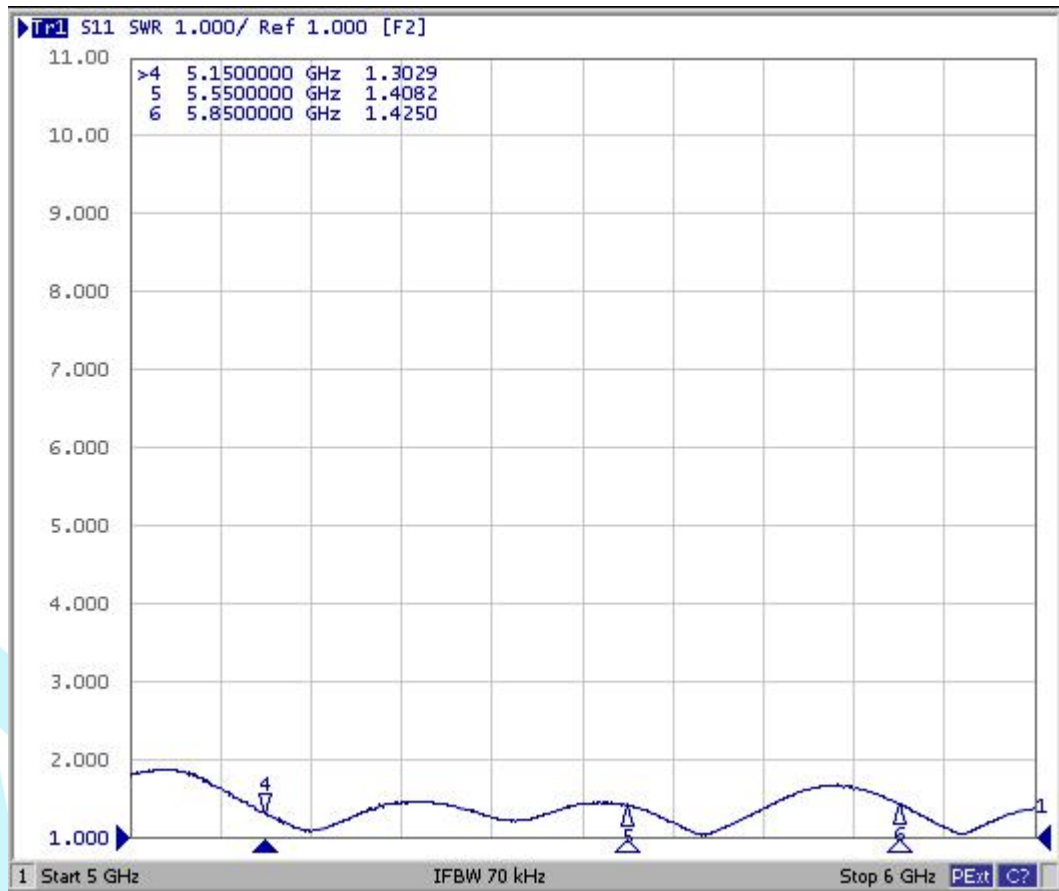


Figure 2: DP5050AX01-190B17U7S VSWR

4.2 Radiation Pattern

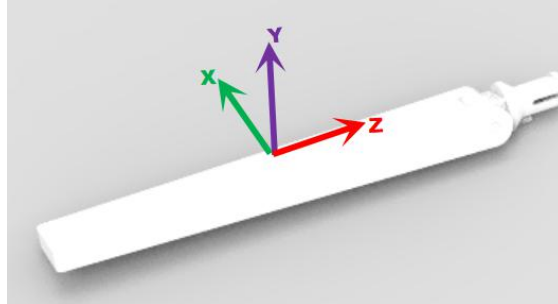


Figure 3: DP5050AX01-190B17U7S Measurement Axes

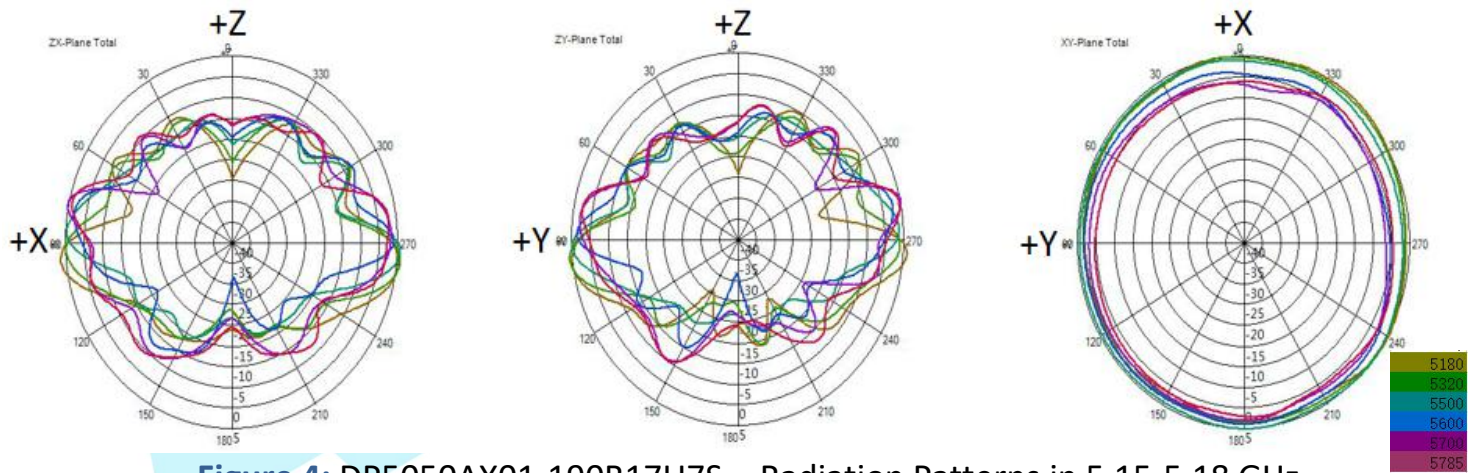


Figure 4: DP5050AX01-190B17U7S Radiation Patterns in 5.15-5.18 GHz

5. Product Drawing

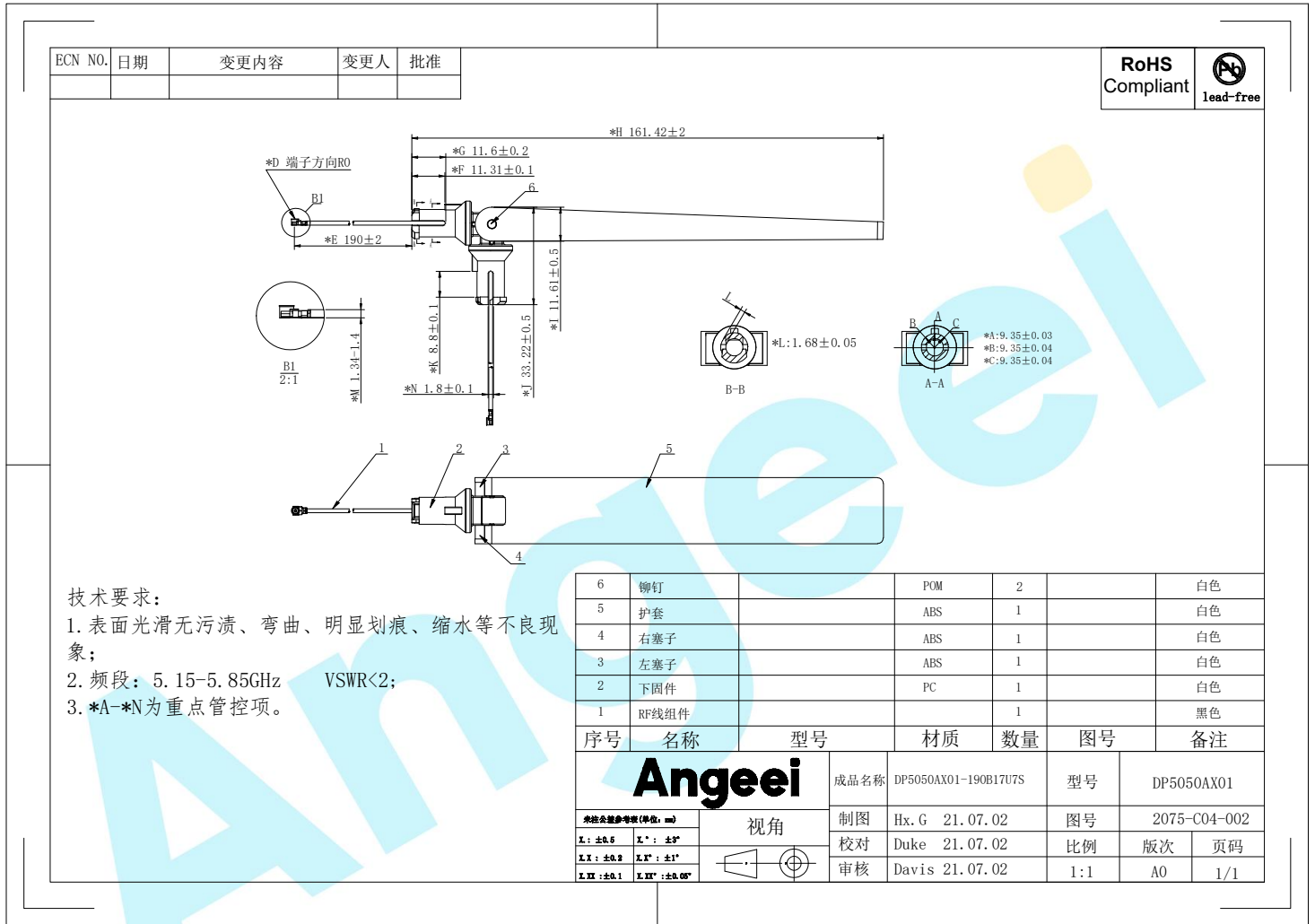


Figure 5: DP5050AX01-190B17U7S Dimensions

6. ROHS

DP5050AX01-190B17U7S antenna is RoHS compliant.

7.Cable Data Sheet

Item	Specification	
Cable type	RF1.37	
Impedance	50 ± 3 ohms	
Inner conductor	Material	Tin-coated copper
	Conductor numbers	7
	Conductor size	0.102 mm
	Outer diameter	0.306 ± 0.02 mm
Dielectric layer	Material	FEP
	Color	Clear
	Diameter	0.9 ± 0.03 mm
Braid (shielding)	Material	Tin-coated copper
	Makeup: total / O.D. Of every wire(mm)	5/0.05 mm
	Coverage	90%± 5%
	Diameter	1.13± 0.05mm
Outer cover	Material	FEP
	Color	Black
	Diameter	1.37 ± 0.05 mm
VSWR testing	< 1.3@0~6GHz	
Cable loss (dB/1meter)	1GHz	≤1.7
	2GHz	≤2.5
	3GHz	≤3.0
	4GHz	≤3.5
	5GHz	≤4.0
	6GHz	≤4.5
Operating temperature	-55°C~+150°C	

Note:

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