

Shenzhen DreamLNK Technology Co., Ltd.
深圳市骏晔科技有限公司

GPS+BD Active Ceramic Patch Antenna

Product Specification

Client Name		Frequency Band	1561.098MHz~1575.42MHz
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	DL-812
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2018-07-16

Client confirmation:

Whether the product meets your requirements? OK NG

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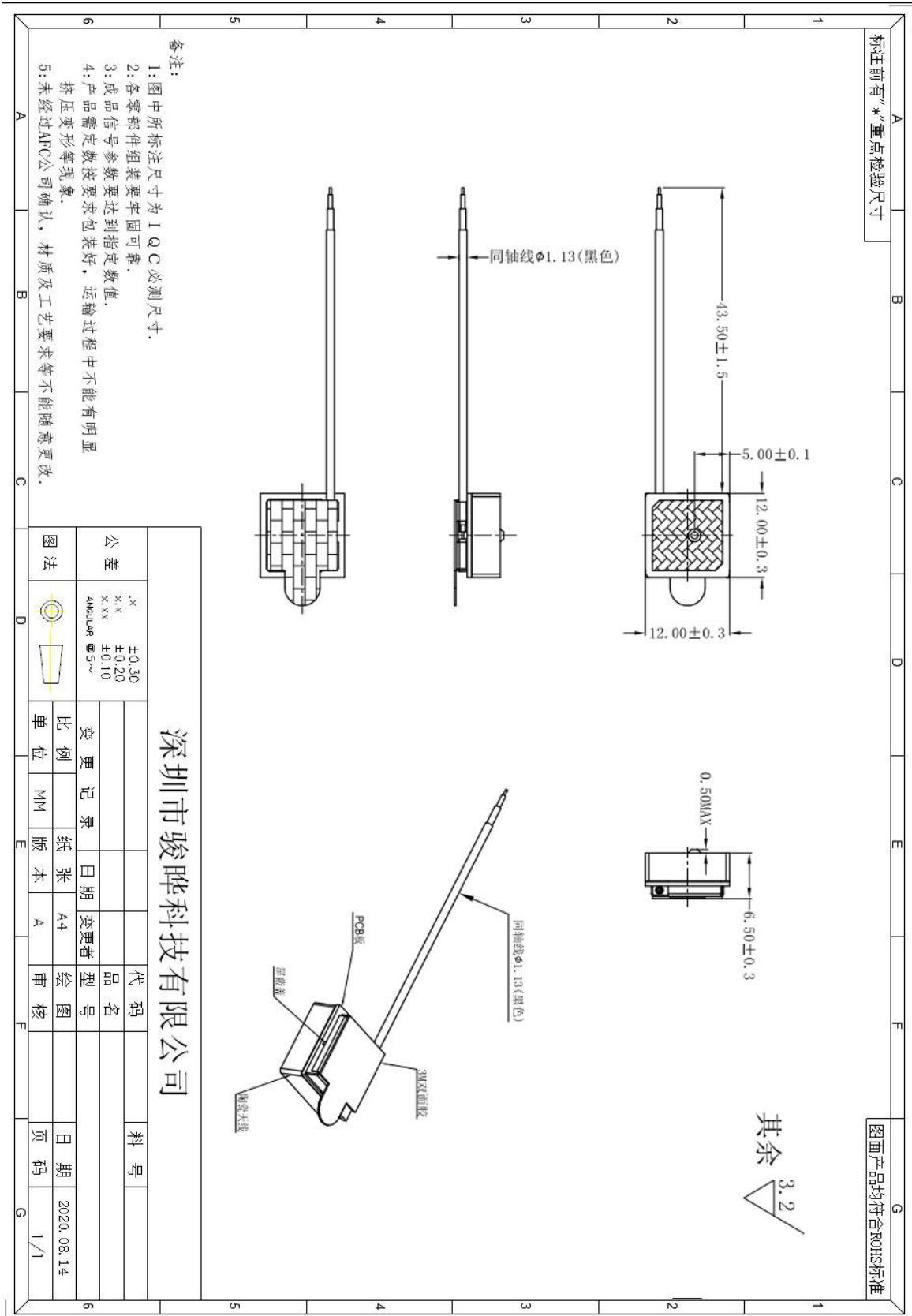
1. Photo



2. Parameters

Product Name	GPS Active Ceramic Antenna	Model No	DL-812
Electrical Specifications			
Center Frequency	1561.098MHz~1575.42MHz	Polarization	R.H.C.P
Voltage	DC 3.0±0.3V	Bandwidth	20MHz min
Current	5mA max	Output VSWR	2.0 max
Gain	18dB typ	Noise Figure	1.6dB max
Input Impedance	50 Ω		
Mechanical Specifications			
Dimensions	12mm(L)×12mm(W)×6.5mm(H)	Color	/
Connector Model	IPEX-1	Cable Length	Φ1.13 *L150 mm
Antenna Material	Ceramic		
Working Temperature	-40℃ ~+85℃	Relative Humidity	10% ~ 95% R H
APPLICATION			
This application shall apply for antenna unit which shall be used with an engine for an automobile. (for impedance 50 ohm)			

3. Structure diagram



4. Environmental reliability experiment report

Item	Test condition	Specification
Storage environment	Tested temperature, humidity and air pressure as following without specifying: 1. The temperature is -30 °C ~ + 80 °C 2. Relative humidity is 45% -85% 3. The air pressure is 86kpa-106kpa	The electrical mechanical performance is normal
High and low temperature test	Perform 5 cycles between 70 °C and 40 °C, then check the appearance quality, under normal conditions 1-2H	The size should meet the requirements for mechanical and electrical performance
Resistant to constant heat and humidity	Test Relative humidity: 95 ± 3%, Test temperature: 40 °C. After continuous 2H running, take out the sample, and measure its electrical properties within 5 minutes, put the sample in a normal condition for another 1-2H, check the appearance quality	The size should meet the standard, and meet for mechanical and electrical performance
Vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M / S, frequency of sweeping cycle: 30 times	Normal electrical and mechanical performance

5. Contact us

Shenzhen DreamLnk Technology Co., Ltd

★ Data collection, Smart home, Internet of Things applications, Wireless remote control technology, Remote active RFID, Antennas ★

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