

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

GPS + BD Two-in-One Cabinet Antenna

Product Specification

Client Name		Frequency Band	1560-1572.42±3MHz
Wire Name		Version	A1
Customer's Part Number		DreamLNK's Part Number	803
RF Designer	James Wang	RF Manager	Knight Ai
Structural Designer		Structural Design Manager	
Technical Director		Date	2019-05-16

Client confirmation:

Whether the product meets your requirements? ☐ OK ☐ NG

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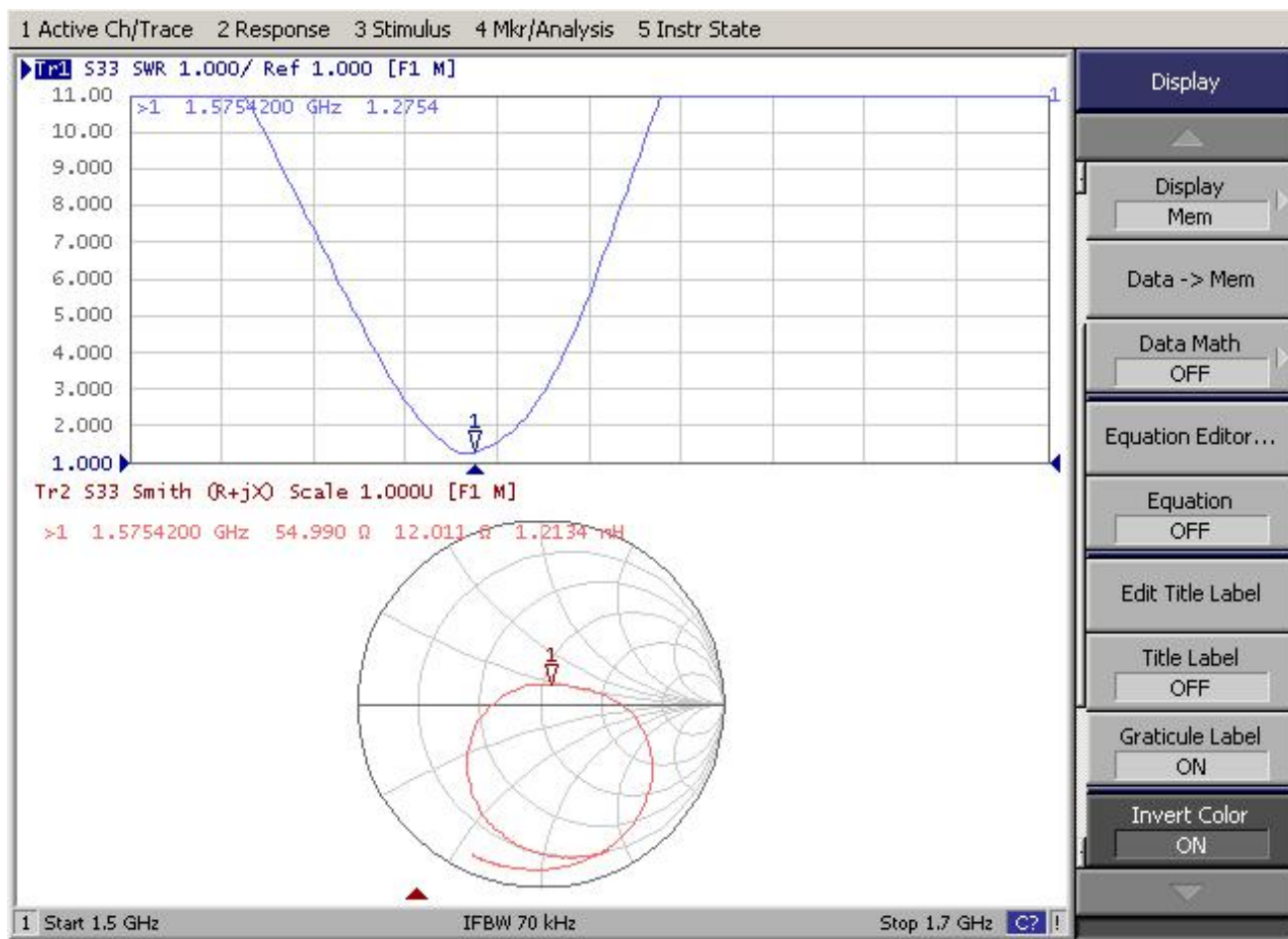
1. Photo



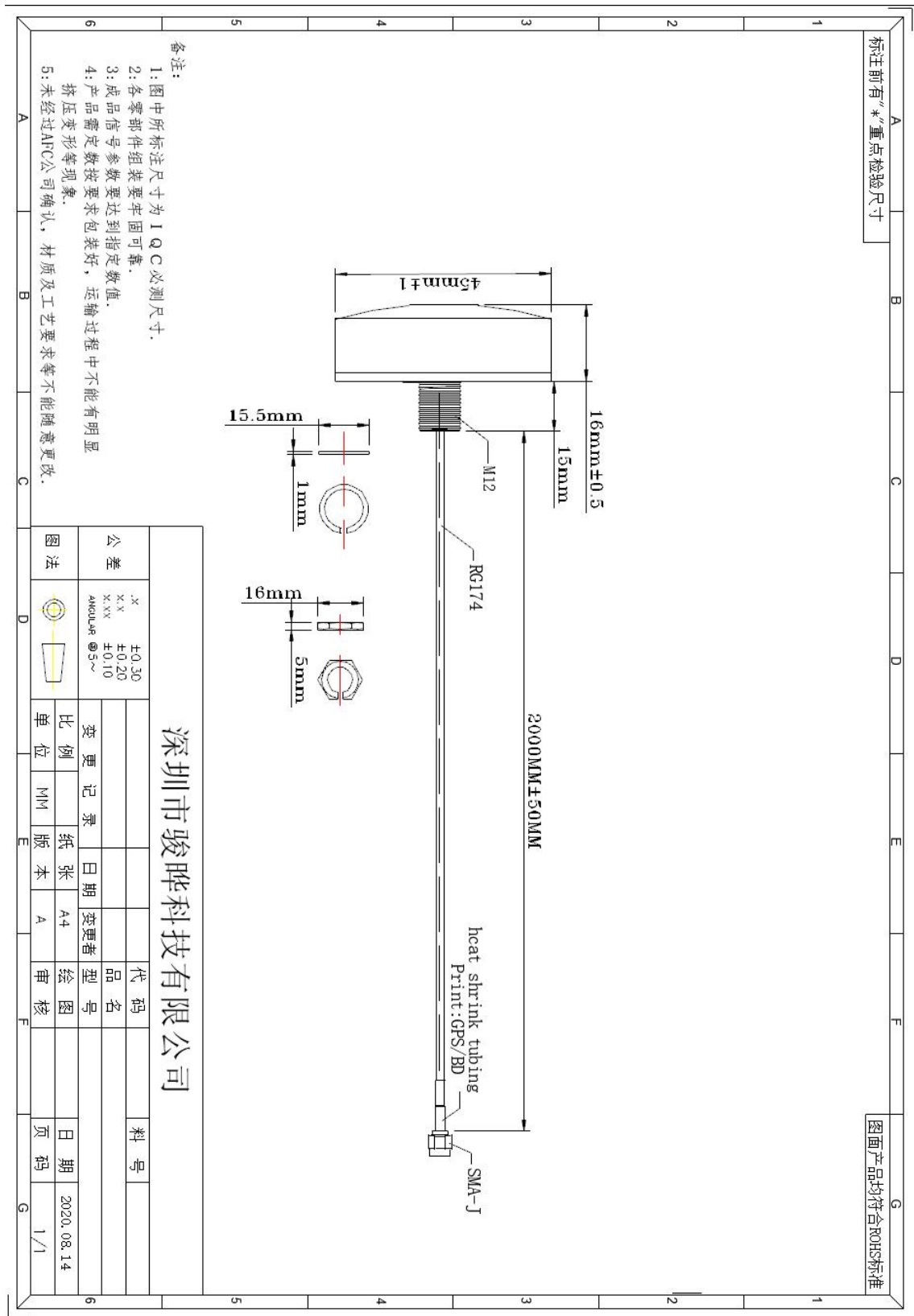
2. Parameters

Test parameters			
Product Name	GPS+BD Cabinet Antenna	Model No	803
Electrical Specifications			
Frequency Range	1560-1572.42 $\pm$ 3MHz	Polarization	Circular polarization
Input Impedance	50 Ω	Radiation direction	Directional
VSWR	$\leq$ 1.5	Power Capacity	20W
Gain	4dBi	Amplifier Gain	28dBi
Mechanical Specifications			
Dimensions	45*16mm	Color	Black
Connector Model	SMA-J	Cable Length	2000 mm
Antenna Material	ABS & COPPER	Voltage	DC3.0~5V
Working Temperature	-30℃ ~+85℃	Relative Humidity	40~85%

3. S11 Data (VSWR, Return loss, Smith)



4. Structure diagram



5. 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
Drop test	1M high-altitude free fall 3 times, in the direction of mutually perpendicular axes	Normal electrical and mechanical performance

6. Contact us

Shenzhen DreamLnk Technology Co., Ltd

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

Office Add.: Room 603, Unit C, Zone A, Huameiju Business Center, Xinhua Rd., Bao'an District, Shenzhen, Guangdong Province, China

Factory Add.: 5th Floor, Building B, Huazhi Innovation Valley, No. 7 Yuhua Street, 138 Industrial Zone, Tangxia Town, Dongguan, Guangdong Province, China