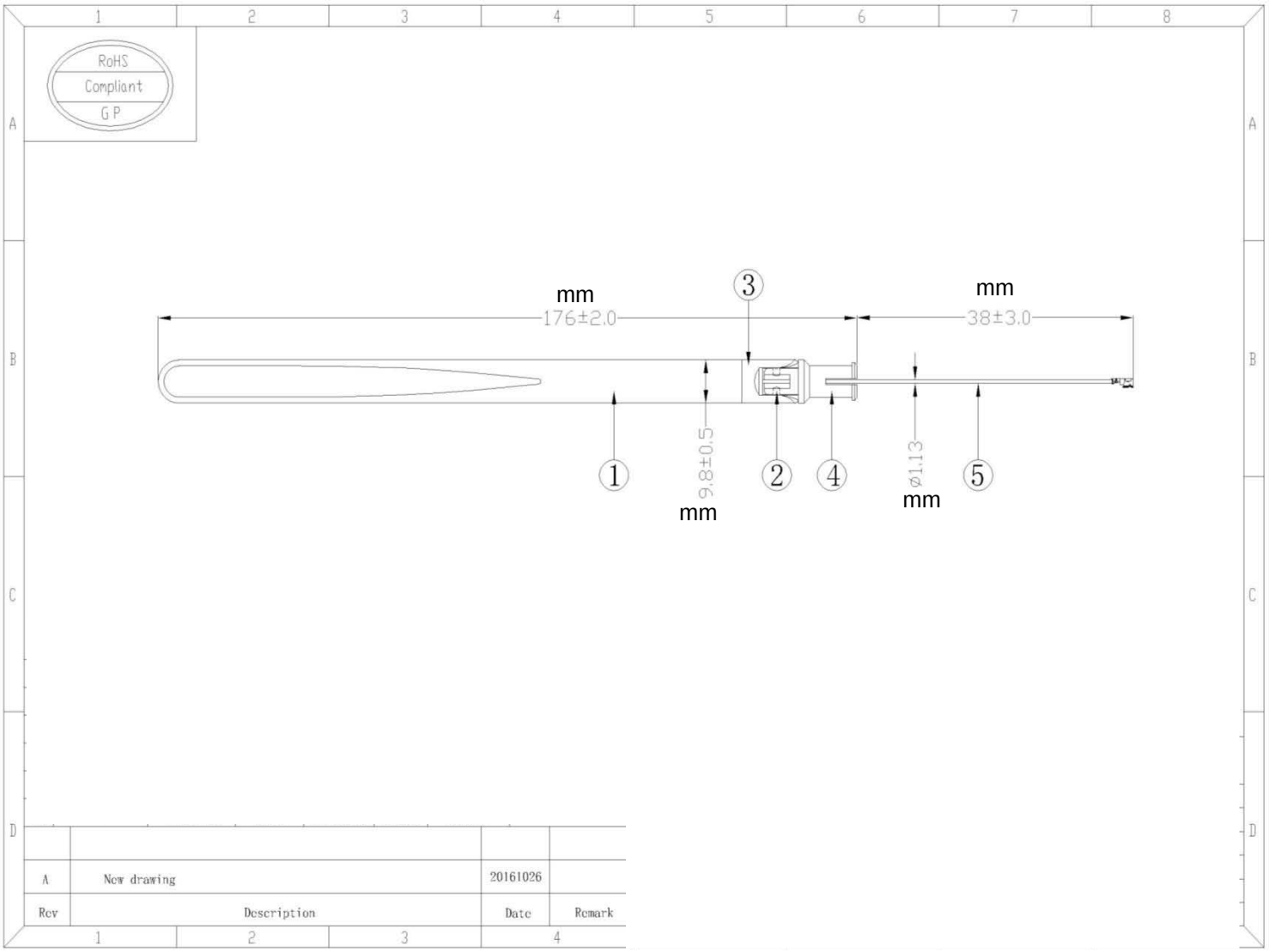
SPECIFICATION

Shenzhen Motian RF Technology Co., Ltd
ADD.: 410, Block A, Fenghuang Zhigu Building,
No. 50 Tiezi Road, Xixiang Street, Bao'an District,
Shenzhen

一、Engineering drawings



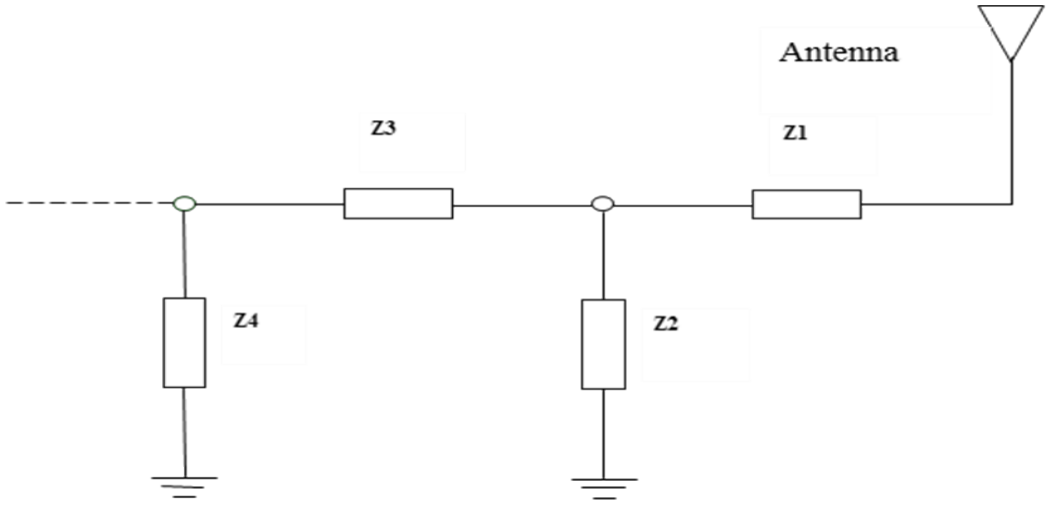
Rev	Description	Date	Remark
A	New drawing	20161026	

Shenzhen Motian RF Technology Co., Ltd
ADD.: 410, Block A, Fenghuang Zhigu Building,
No. 50 Tiezi Road, Xixiang Street, Bao'an District,
Shenzhen

二、Antenna Test

matching circuit

MatchingNetworkValues Z1:
short
Z2: open
Z3: short
Z4: open



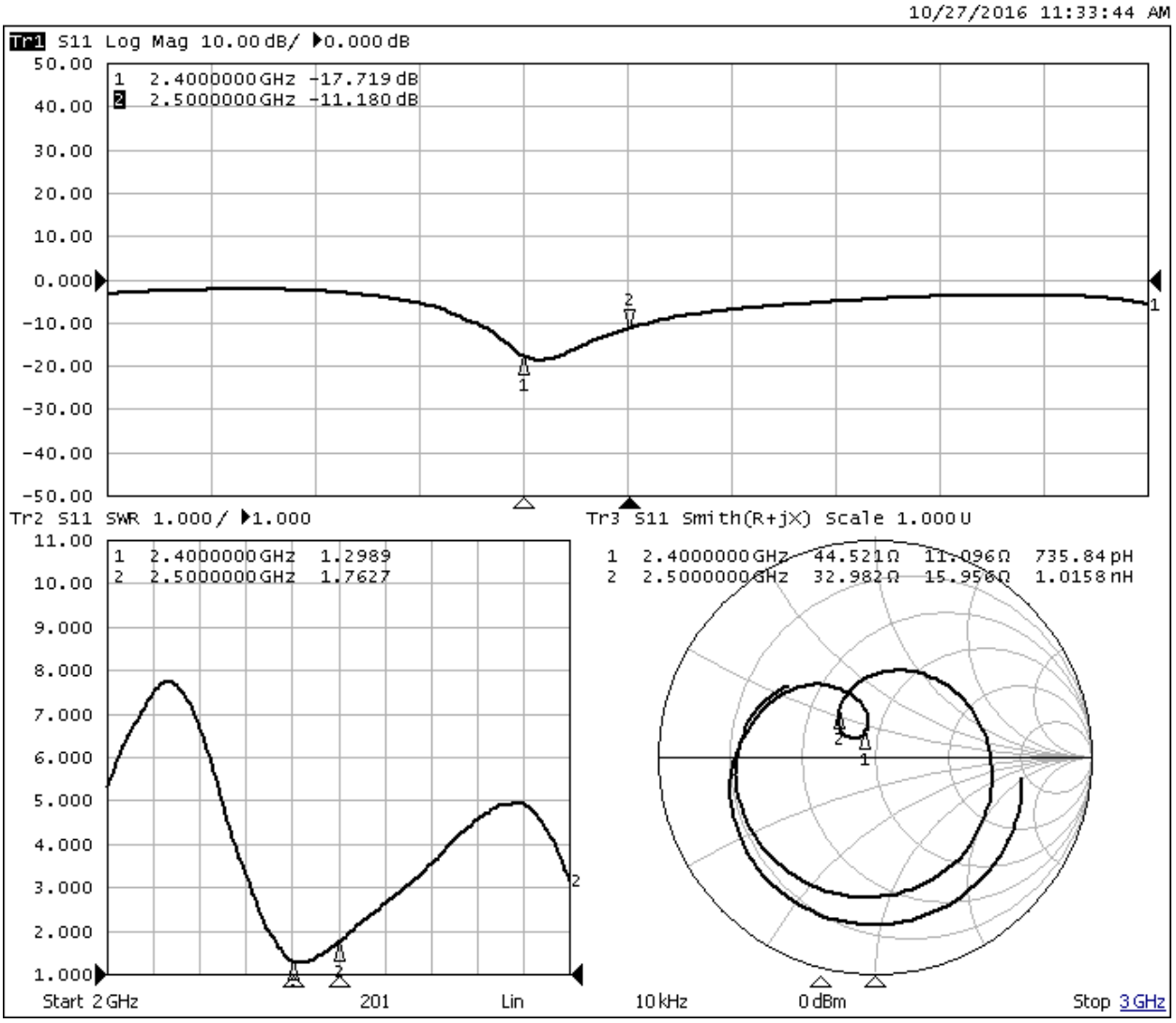
environmental treatment

No.	Test	condition	
1	Moisture resistance test	Place the product in an environment with a temperature of 60 ℃± 3 ℃ and a relative humidity of 90%~95% for 96 to 98 hours, then take it out and air dry; again Place the product at a temperature of 25 ℃± 5 ℃ and a relative humidity of less than 65% In an environment of 2-4 hours, take it out and dry thoroughly.	
2	High temperature exposure	After standing at 105 ℃ for 96-98 hours, the product is allowed to stand at 25 ℃± 5 ℃ and a relative humidity of less than 65% for 2-4 hours Leave measurement for hours.	
3	low temperature	After standing in an environment of -40 ℃ for 96-98 hours, the product is left to be measured at a relative humidity of less than 65% at 25 ℃ ± 5 ℃ for 2-4 hours	
4	Temperature cycling	Allow the product to stand for 30 minutes in an environment of -40 ℃, and then place the product After standing in a high temperature environment of 105 ℃ for 30 minutes, repeat 5 times, and measure after standing at room temperature for one hour。	
5	vibrate	The product has undergone the following vibration testing: a duration of 2 hours, an amplitude of 1.5mm on the X, Y, and Z axes, and a vibration frequency range of 10Hz~55Hz。	
6	solderability test	The lead terminal is heated to 350 ℃± 10 ℃ with a soldering iron for 5 seconds ± 0.5 seconds, then place the component under natural conditions for 1 hour and measure without visible damage.	

7	Soldering experiment	Immerse the lead terminals in a welding bath between 260 ℃ and 290 ℃ for 3 seconds ± 0.5 seconds; More than 95% of the terminal surface of the product should be covered with fresh Solder.	The terminal should be covered with solder at least 95%
8	Pressure intensity	2 kilograms of stretching force in each direction for 10 seconds ± 1 second, without any damage.	No mechanical damage such as breakage is allowed

Performance testing

Standing wave diagram



Passive Test

Freq	2400	2410	2420	2430	2440	2450
Gain	3.038091	3.500901	3.692114	3.857549	3.874158	3.832528
Efficiency_Pcent	40.24536	44.39935	45.12517	45.83606	45.98049	46.35295
Freq	2460	2470	2480	2490	2500	
Gain	3.801669	3.919468	3.798727	3.673261	3.675616	
Efficiency_Pcent	47.50744	48.3282	47.17967	46.18229	46.74252	