



规格承认书

Approval Sheet

客户名称 麦孚瑞

(Customer Name)

产品名称 ME61-WIFI/BT Antenna

(Specification)

客户料号

(Customer P/N)

产品料号

(O/I)

送样日期 2023-08-30

(Date)

Frequency band	WIFI / BT		
Version	A		
RF	彭巍	Confirm	
Structural Engineer	杨学忠		
Customer confirmation			
Date			

Catalogue

1. Project image

2. Test fixture

3. Matching circuit

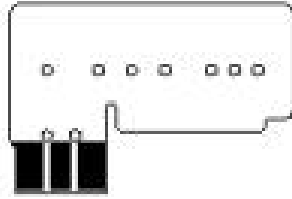
4. S11 Test electrical performance

4.1 S11 Test Method Description Specification Standards

4.2 S11 Parameter image

5. Structural drawings

1. Project image (for reference only)

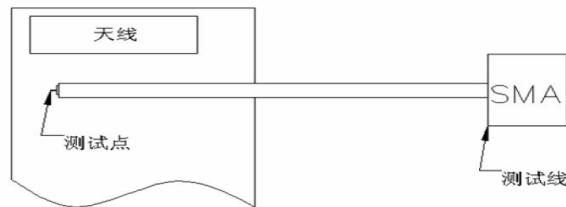


WIFI/BT Antenna

2. 无源测试

Purpose: To test the passive parameters of the antenna as accurately as possible.

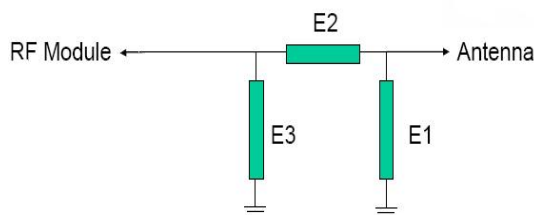
Method: This fixture uses a 50 ohm coaxial cable, with one end connected to the test point at the back end of the matching circuit (RF test hole front section) of the mobile phone motherboard, and the other end connected to the SMA connector. As shown in the following figure:



The following table shows the performance test indicators for ME61 mass-produced antennas:

ME61WIFI / BT Antenna				
	Frequency (MHz)	VSWR	Frequency (MHz)	VSWR
Frequency band	Transmitting end		Receiving end	
2.4G WIFI	2400-2500	≤ 1.4	2400-2500	≤ 1.6
BT	2400-2500	≤ 1.4	2400-2500	≤ 1.6
5G WIFI	5150-5850	≤ 1.8	5150-5850	≤ 1.4

3. Matching circuit



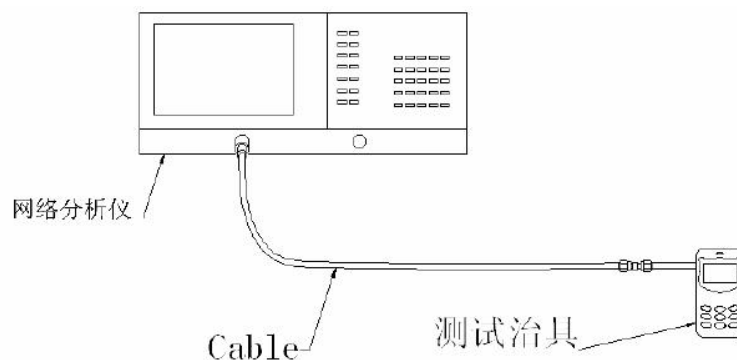
Element	Matching Value
E1	
E2	
E3	

4. S11Test

4.1 S11Test Method Description Specification Standards

VSWR The testing devices are sequentially connected as follows :
 E5071B Network analyzer → 50Ω Coaxial line → 120mm Copper tube → Test fixture.

Treatment of testing fixture: Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, connect it to a copper pipe with a choke ring, and then connect other devices in sequence.



Test diagram



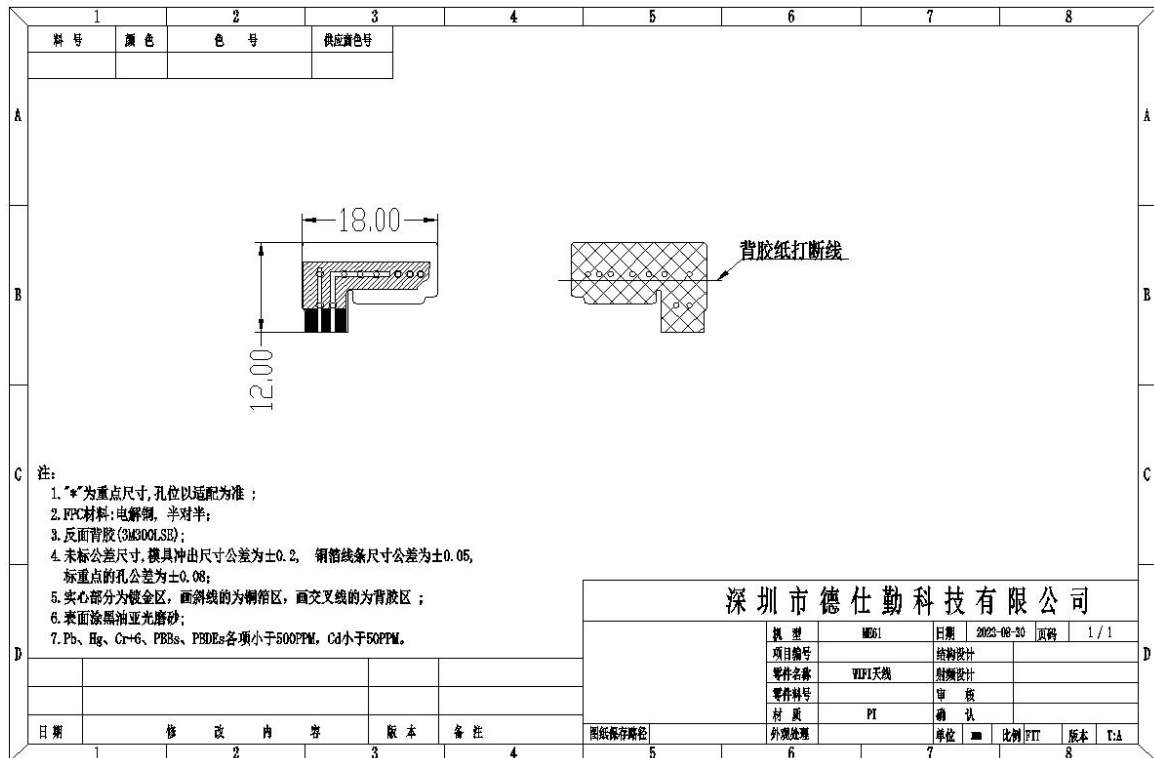
4: Antenna Test

Chan nel	11B			11G		
	CH1	CH7	CH13	CH1	CH7	CH13
TRP	12.11	12.18	12.07	10.78	10.97	10.69
TIS	-85.48	-84.57	-84.51	-69.82	-69.36	-68.34
Gain	+0.6dBi			+0.6dBi		
Chan nel	11N			11A		
	CH1	CH7	CH13	CH36	CH60	CH165
TRP	10.97	11.0	10.68	10.70	10.14	11.65
TIS	-66.07	-66.33	-65.82	-69.74	-70.17	-70.22
Gain	+0.6dBi			+1.1dBi		

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WIFI	Normal internet distance (m)	Smooth distance for online browsing (m)
	12-15	10-12
BT	Clear call distance (m)	
	10-12	

5: Structural drawings



深圳市德仕勤科技有限公司

Dosking MicroElectronics Co.,Ltd

地址: 深圳市南山区西丽大学城民企科技园 2 栋 (港鸿基大厦) 西座 403

TEL:0755-88602767 FAX:0755-82793883