

# APPROVAL SHEET

CUSTOMER::	<u>Signalsen</u>
DISCRIPTION:	<u>Antenna</u>
MODEL NO:	<u>WIFI/BT</u>
CUSTOMER P/N:	<u>W686-1B70B-A</u>
CUSTOMER MODEL:	Digital photo frame

<b>CONTENTS</b> .....	<b>1</b>
<b>1. PROJECT INFORMATION AND ELECTRICAL SPECIFICATION</b> .....	<b>3</b>
1-1 PROJECT PICTURE .....	3
1-2 FREQUENCY BAND: .....	3
1-3 IMPEDANCE MATCHING .....	3
<b>2. VSWR</b> .....	<b>3</b>
2-1 MEASURING METHOD: .....	3
2-2 S11 PARAMETER VALUES .....	4
<b>3. EFFICIENCY AND GAIN</b> .....	<b>4</b>
3-1 EFFICIENCY/PEAKGAIN- /WIFI/BT .....	5
<b>4. ICTIVE TEST RESULT</b> .....	<b>错误！未定义书签。</b>
<b>5. THE PRODUCTION INDEX</b> .....	<b>7</b>
<b>6. STRUCTURAL DRAWINGS</b> .....	<b>8</b>

## 1. Project information and Electrical Specification

*Those specifications were specially defined for 数码相框 model, and all characteristics were measured under the model's handset testing jig.*

1-1 Project picture



1-2 Frequency Band:

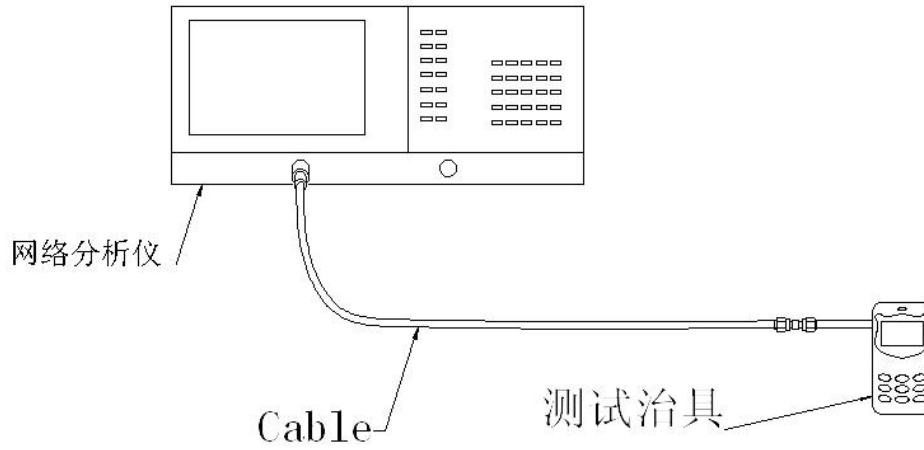
Frequency Band	MHz
Wi-Fi/BT	2400-2500

1-3 Impedance matching

## 2. VSWR

### 2-1 Measuring Method:

- 1. A 50  $\Omega$  coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR,*
- 2. Keeping this jig away from metal at least 20cm.*



### 2-2 S11 parameter values

frequency (MHZ)	2400	2500
standing wave	1.55	1.37

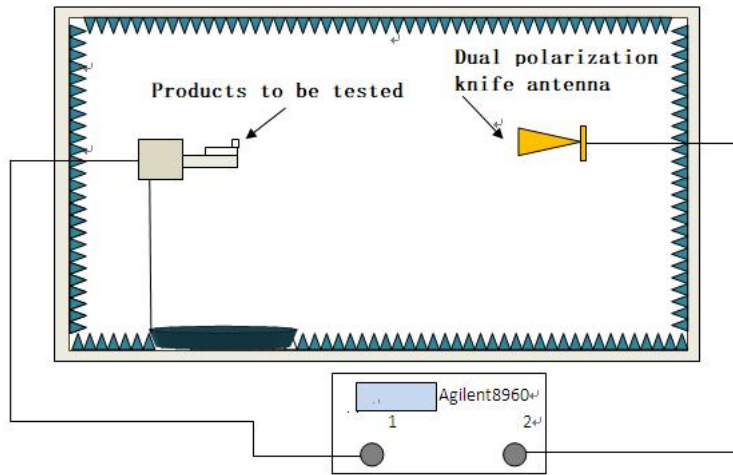


### 3. Efficiency and Gain

\*measuring and test instruments:

\*test method:

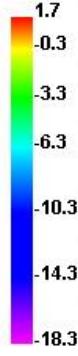
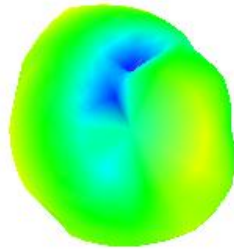
equipment.



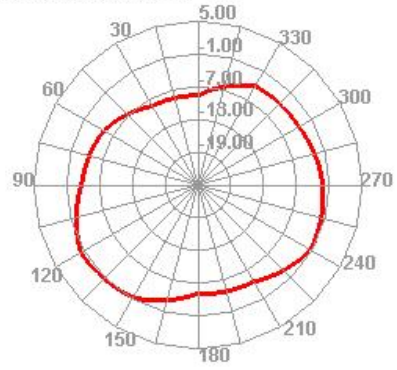
### 3-1 Efficiency/Gain- WIFI/BT

BAND	WIFI/BT		
Freq.[MHZ]	2400	2450	2500
Eff.[%]	58.9	58.6	60.57
Peak Gain [dBi]	1.7	1.7	1.9

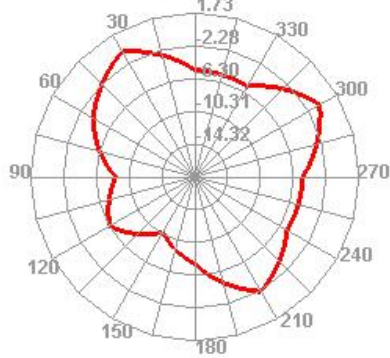
2400.000MHz



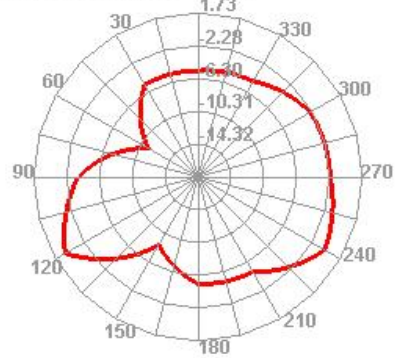
2400.000MHz H



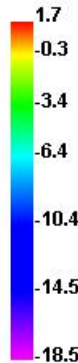
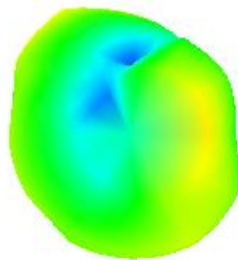
2400.000MHz E1



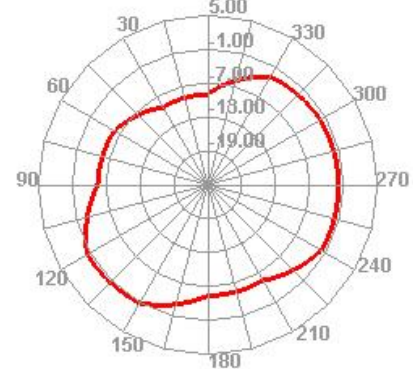
2400.000MHz E2



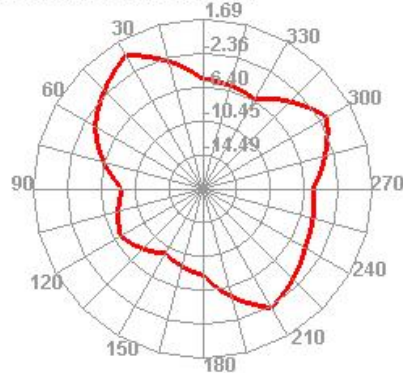
2450.000MHz



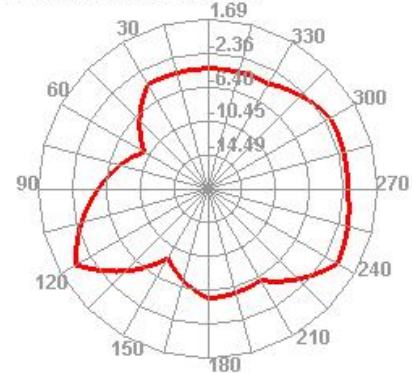
2450.000MHz H

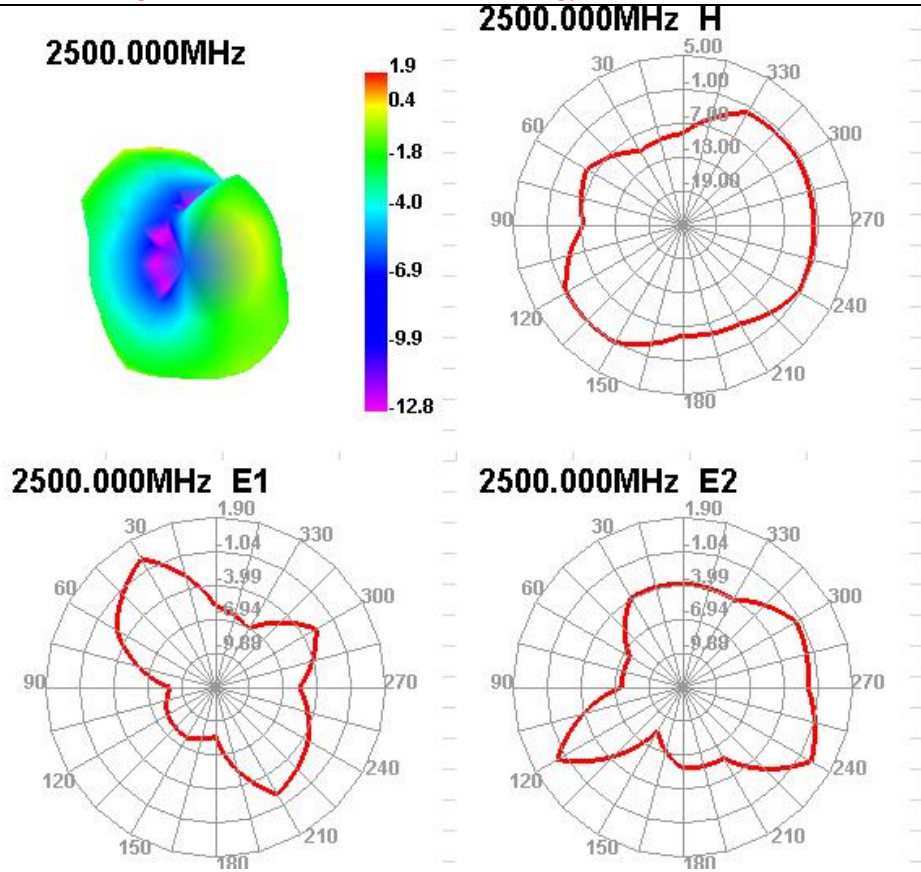


2450.000MHz E1



2450.000MHz E2





## 5. The production index

:

frequency (MHZ)	Mass production standard
2400-2500	VSWR (Mass production products) <VSWR(Design sample)+0.5

