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1. General Description

Dbi	Decibel relative isotropic antenna			
Тх	Transmit frequency			
Rx	Receive frequency			
VSWR	Voltage Standing Wave Ratio			
GSM	Global Service for Mobile communication			
DCS	Digital Communication System			
PCS	Personal Communication System			
PHS	Personal Handly-phone System			
SAR	Specific Absorption Rate			
РСВ	Printed Circuit Board			

2. Electrical Specifications

2-1 Set-up

2-1-1 Frequency Band

Frequency Band	Frequency	
WIFI 2.4G	2400-2500MHZ	
WIFI 5.8G	5150-5850MHZ	

2-1-2 Impedance

Nominal Impedance(including matching circuit) : 50 ohms



2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1 Optimum matching circuit is highly dependent on the handset and thus. Final matching circuit layout and values will be defined when handset is available.



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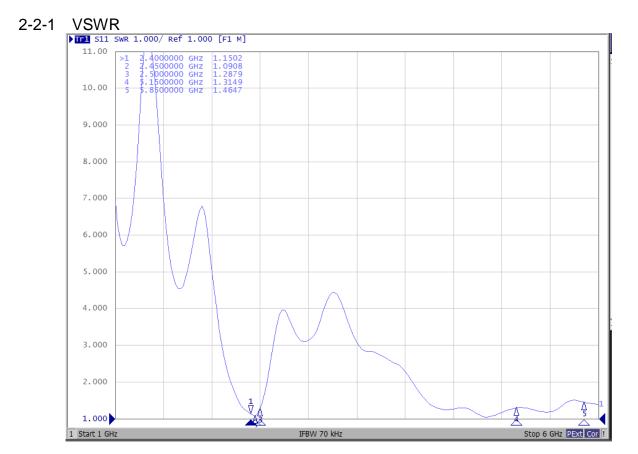
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2-1-4 VSWR And GAIN

VS	WR	GAIN		
Freq. Band	OPEN SPEC	Band Freq.	OPEN SPEC	
2400MHz	≦2.0	2400MHz	≧-1.0dBi	
2500MHz	≦2.0	2500MHz	≧-1.0dBi	
5150MHz	≦2.0	5150MHz	≧-1.0dBi	
5850MHz	≦2.0	5850MHz	≧-1.0dBi	

Measuring a 50 Ω test jig is connected to a network analyzer to measure the VSWR.
% All test value is done in customer approval fixture.

2-2 Test Data



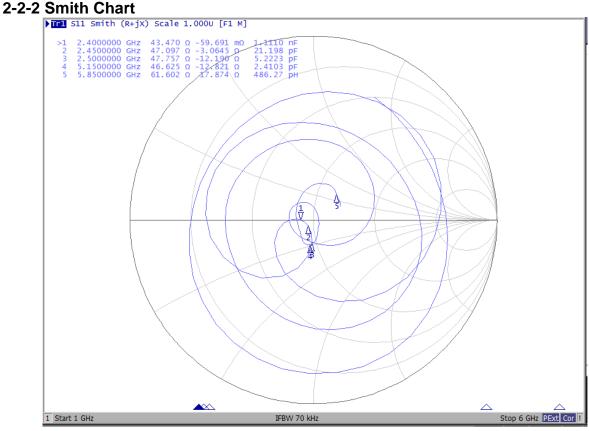


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2-2-3 GAIN Efficiency

WIFI 增益:

Frequency					
(MHz)	2400	2450	2500	5150	5850
Average					
Gain	1.42	1.72	1.65	2.34	2.57
Efficiency (dB)	(44%)	(48%)	(45%)	(61%)	(66%)

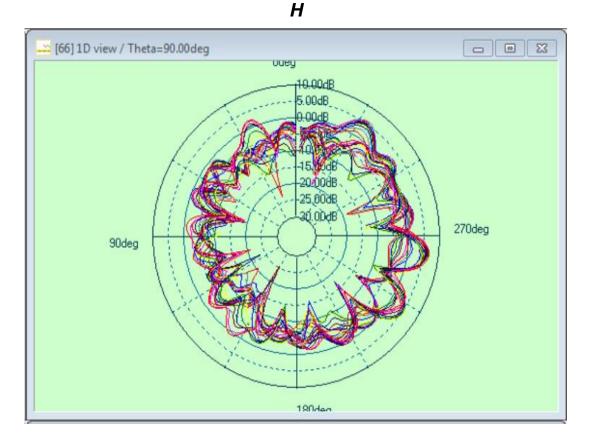


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2-2-4 The direction of figure



E1

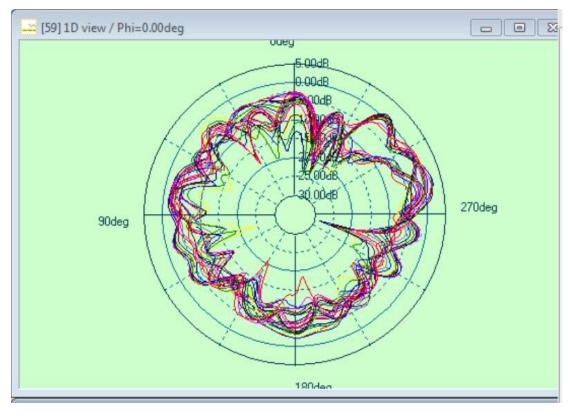


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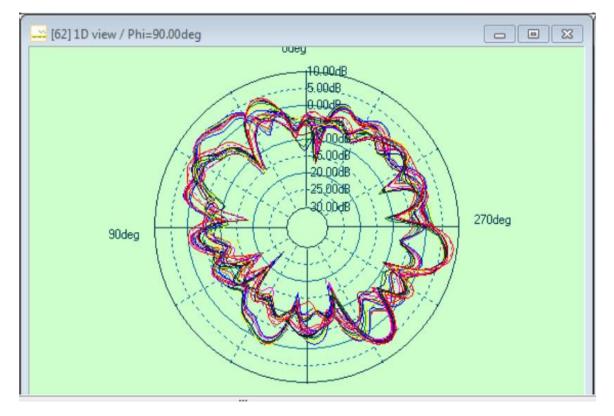
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HUIZHOU GAOSHENGDA TECHNOLOGY CO.,LTD No.2, Jin-da Road, Huinan High-tech Industrial Park, Huizhou, Guangdong, China