

# SAMPLE SPECIFICATION FOR APPROVAL

SUPPLIER	Shenzhen Keridis Technology Co., Ltd			
Model	Q15-BT			
Product name	Antenna			

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### 1. General Description

This report summarizes the electrical performance results of the proposed Internal antenna to support the Q15-BT (20MM) program. The antenna is an assembly BT 2.4G.



## 1. Electrical Specifications

## 2-1 Set-up

#### 2-1-1 Frequency Band

	Frequency Band
ВТ	2400-2500

#### 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.

#### 2-1-4 VSWR And GAIN

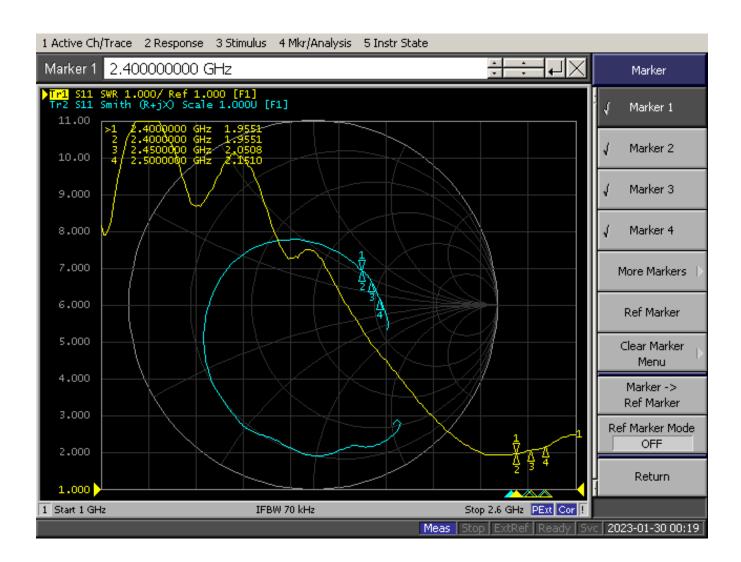
VS	WR	GAIN		
Freq. Band	SPEC	Band Freq.	SPEC	
2400-2500 MHz	≦3	2400MHz	≦1.99dBi	

 ${\rm *`Measuring~a~50\,\Omega'}$  test jig is connected to a network analyzer to measure the VSWR  ${\rm *`XAll}$  test value is done in customer approval fixture.

#### 2-2 Test Data

#### 2-2-1 BT VSWR

Model No:	File:
CREDITS NO:	Note:
Sample No:	BT-VSWR
Test Condition: Free Space	Matching:
Confirmation:	Engineer:

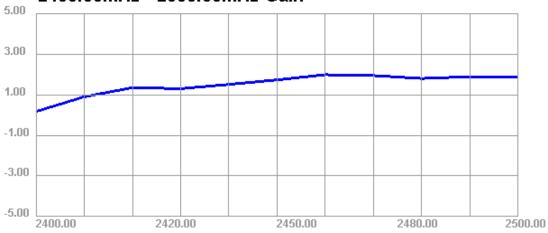


2-2-2 Gain

Passive Test For WIFI 2.4						
Freq (MHz)	Effi (%%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)
2400	19	-7.21	1.51	-0.64	1.51	-16.96
2410	20.63	-6.85	1.73	-0.42	1. 73	-17.9
2420	22. 19	-6.54	1. 99	-0.16	1.99	-17. 92
2430	22. 16	-6.54	1. 95	-0.2	1.95	-17.7
2440	22. 41	-6.5	1.8	-0.35	1.8	-16.38
2450	22.89	-6.4	1.89	-0.26	1.89	-14.89
2460	24. 25	-6.15	1.87	-0.28	1.87	-16.11
2470	25.57	-5.92	-0.42	-2.57	-0.42	-17.74
2480	21.89	-6.6	-0.84	-2.99	-0.84	-17.91
2490	21.78	-6.62	-0.39	-2.54	-0.39	-17.61
2500	23.2	-6.35	-0.2	-2.35	-0.2	-18.87

#### 2-2-3





# 2400.00MHz - 2500.00MHz Efficiency



# 3. Mechanical Specification

3-1-1 Mechanical Configuration( Assembly Drawing )

#### 3-2 Measurement Data

#### 3-3 Salt-Spray test

35℃, 85%RH, 48Hours(According to MIL-STD-810E)The salt-spray is generated from a 5% salt solution., The VSWR, Gain, Radiation Pattern must be met specifications after the salt-spray test.

### 4. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity	1.Temperature: +70 ±2°C	No material deformation is
	Storage Test(non operating)	2.Humidity: 90~95%RH	allowed.
		3.Time: 48hrs	
4-2	Low Temperature/Humidity	1.Temperature: -30±2°C	The VSWR, Gain, Radiation
	Storage Test(non operating)	2.Humidity: 0%RH	Pattern must be met
		3.Time:48hrs	specifications after these test.