



SHENZHEN KINGHELM ELECTRONIC CO., LTD.

SPECIFICATION FOR APPROVAL

Customer name:

Customer P/N:

Description: 470MHZ Sucker antenna

Company model: KH808-5

Customer Approval				
Purchasing Department	QC Department	Engineering Department	Business Department	QC Department
XIANG JINBAO	JIA KUNHAI	CHEN XING	LIU QINHONG	JIA KUNHAI

Approval Date _____

Sending Date 2018.11.5

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4、Specifications and Characteristic Description

1、Electrical Characteristics		
1.1 Antenna		
2	Frequency	470±5MHz
3	V. S. W. R	< 2:1
5	Impendence	50 ohm
6	Gain	3±0.5dB
	Polarization	Vertical polarization
2、Material		
No	Part Name	SPEC
4	RF coaxial Cable	RG174 (64 volumes of copper-clad aluminum)
		Attenuation: 1.3dB/m
		L=1000±20MM
	magnet	N35 Φ 10 * 1 adsorbability (pulling force of iron suction plate: 1.10 ± 0.1kg)
5	RF Connector	SMA-J Gold plating
3、Environment Condition		
1	Working Temp	-40°C ±85°C
2	Storage Temp	-40°C ±90°C

5、Product Image



General Dimensional Tolerance (±)			Angle Tolerance
Dimensional Discrimination	A	B	C
Below 4	0.1	0.15	0.2
Above 4-Below 16	0.15	0.2	0.3
Above 16-Below 63	0.2	0.3	0.5
Above 63-Below 250	0.3	0.5	0.8
Above 250	0.5	0.8	1.2

MAGNETIC MOUNT ANTENNAS

DFT808-5 Specs Character

Operating frequency: $470 \pm 5\text{MHz}$

Gain: $3 \pm 0.5\text{dBi}$

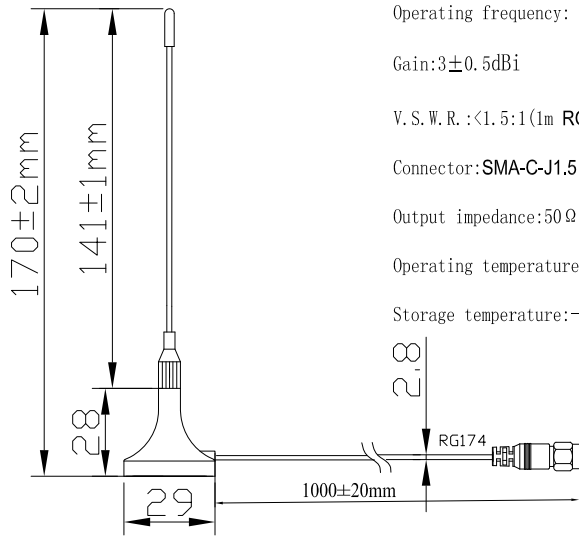
V. S. W. R. : <1.5:1 (1m RG174V cable,)

Connector: SMA-C-J1.5

Output impedance: 50Ω

Operating temperature: $-40^\circ \text{C} \sim 85^\circ \text{C}$

Storage temperature: $-40^\circ \text{C} \sim 90^\circ \text{C}$



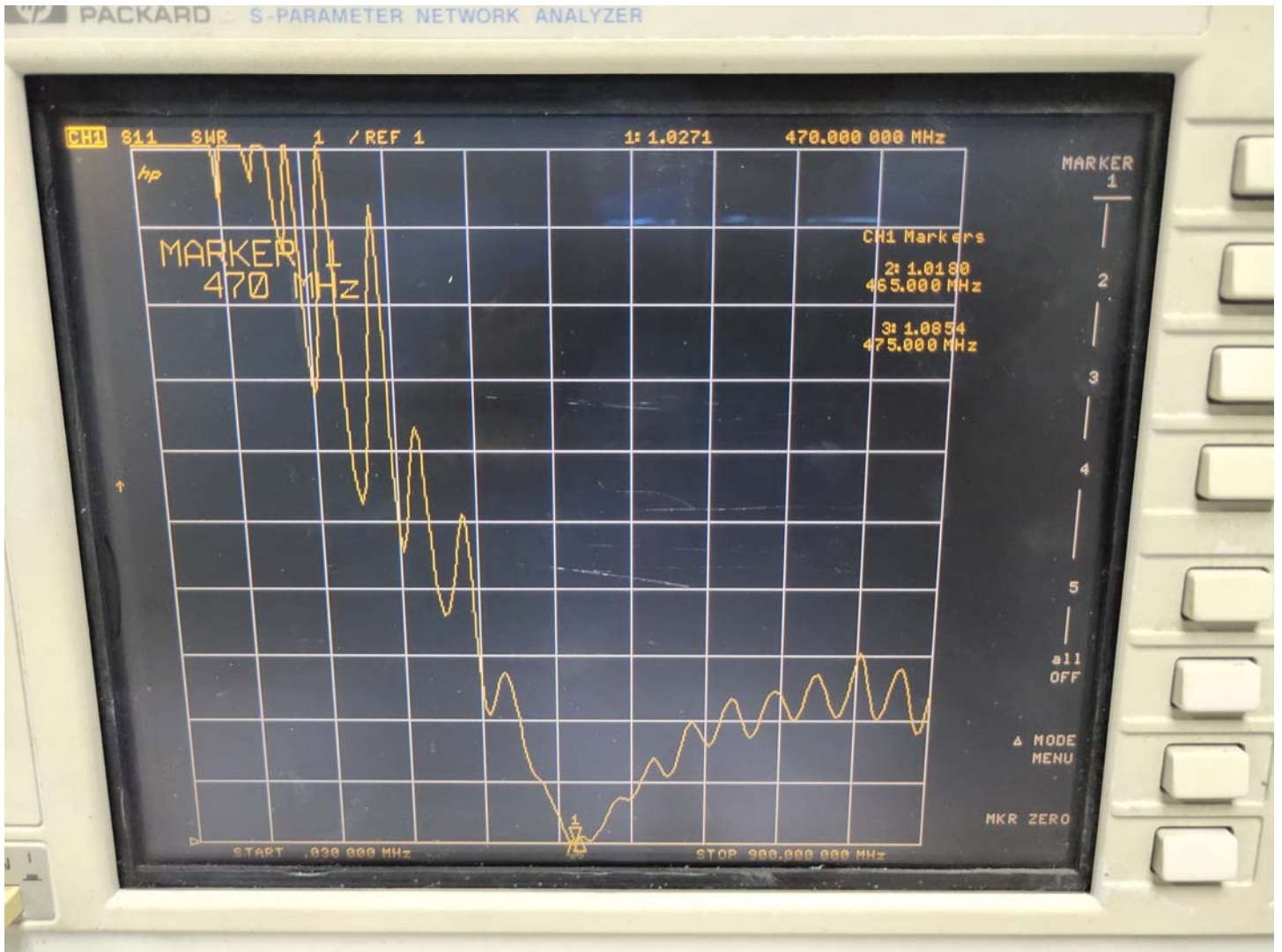
Product Sort	Model No.
	DFT808-5
Approved by	Part name
Checked by	Material
Designed by	Specs
Quantity	Part No.
SHENZHEN KINGHELM ELECTRONIC CO., LTD.	

File Number : WI-GC-DF T808-5

PATTERN NO.:

Common Tolerance	A
Unit mm	Scale

Sample testing waveform



470MHz:1.02

465MHz:1.01

475MHz:1.08

Sample inspection report

Product name: Communication antenna

Model number: DFT808-5

Part Material

Test quantity: 3PCS

Date of inspection: 2018-11-5

ITEM	Test Item	Tester	Standard	Sample Part			Result
				1	2	3	
1	Working Frequency	8752c Network Analyzer	465~475MHz	OK	OK	OK	OK
2	Center Frequency	8752c Network Analyzer	470MHz	OK	OK	OK	OK
3	Frequency VSWR	8752c Network Analyzer	<2:1	OK	OK	OK	OK
4	Gain	Spectrometer + signal generator	3±0.5dBi	3dBi	3dBi	3dBi	OK
5	Output Impedance	8752c Network Analyzer	50 OHM	50 OHM	50 OHM	50 OHM	OK
6	Total Length of Antenna (Base Added)	Ruler	170±2mm	169.5	169.5	169.5	OK
7	Appearance of Pole	Visual Inspection	The surface shall be free of flash, burr, shrinkage, pattern or crush	OK	OK	OK	OK
8	Cable Specification and Length	Band Tape	RG174 1000+/-20mm	1000	1000	1000	OK
9	RF connector (DC Plug)	Visual Inspection	The surface shall be free of flash, burr, shrinkage, pattern or crush	OK	OK	OK	OK
10	Magnet	Caliper	Φ10*1 Two-sided Magnet	OK	OK	OK	OK
11	Pull Test of Magnet	Tension Gauge	1.10±0.1kg	1.1	1.15	1.1	OK
14	Packaging Appearance of End Product	Visual Inspection	Both ends of the cable shall be tied with ribbons, and every single product shall be packed in a PE bag	OK	OK	OK	OK

Result

By proof-test, the product is compliant to the requirements; the result shall be deemed as OK

Inspector:

Checked :