Shenzhen Keesun Technology Co.,Ltd

Product Approved sheet

Part P/N:			KS085	5-10012 -A		
specificati	lon:	2.4 [~] 2.	5GHz/5	5. 15~5. 85GHz	FPC Antenna	
	1. 13	Gray	Cable	L=70mm+I-PEX	440-040609-B	

Customer: Shen Zhen ShiRuiAn Technology Company Limited

Customer number: : 5080001

Quality department	Engineering department	Business department
MO LI FAN	FRED	Lily

Customer			
Verify	Check	Approve	
Ella Wu	Lanna	Kevin Zhu	
consequence:	Accept	NG	
Opinion:			

Catalog

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•Electrical Performance:

1. Frequey Range: 2.4GHz~2.5GHz /5.15~5.85 GHz

2. Lmpedance: 50 Ohms nominal

VSWR: ≤1.92
 Gain: 1.88dBi

5. Admitted power radiation: 1W6. Radation of Radiation: Toroidal

Radiation: Omni
 Polarization: Vertical
 Connctor Type: I-PEX

• Mechanical properties:

1. Cable: MI 1.13Black Cable, 50 Ohm

2. Operation temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

3. Storage temperature range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

4. Color:black

中国深圳 宝安区福永镇福海工业区 A 区 C 栋 5 楼东面 Tel: 0755-18603053622 0755-33016039

Network analyzer test chart

Material number::KS085-10012 -A

Name specifications: 2.4~2.5GHz/5.15~5.85GHz 21.88dBi FPC

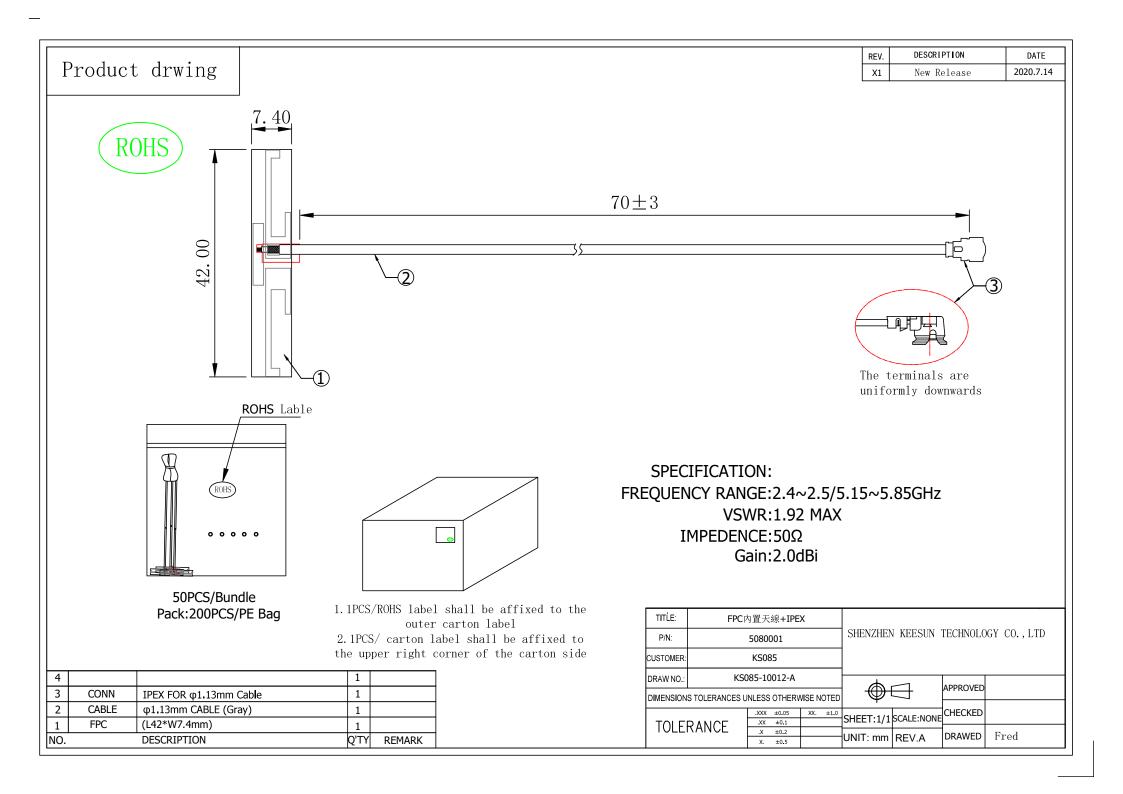
Antenna Test value:Return Loss/VSWR





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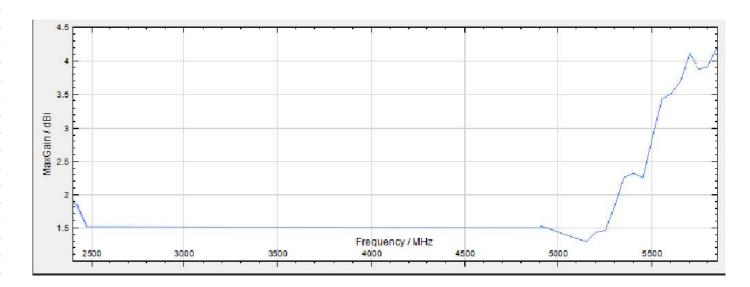


Antenna Efficiency(2.4/5.8GHz)

Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	32. 84	1.88
2405	33. 78	1.85
2410	34. 42	1.87
2415	34. 83	1.86
2420	34. 87	1.84
2425	34. 26	1.8
2430	33. 58	1. 72
2435	33. 46	1. 67
2440	34. 23	1. 76
2445	34. 31	1. 79
2450	33. 34	1. 59
2455	35. 17	1.81
2460	35. 45	1.88
2465	34. 9	1. 76
2470	34. 15	1. 73
2475	34. 13	1.66
2480	33. 77	1.62
2485	34. 12	1.59
2490	35. 14	1.69
2495	33. 98	1. 53
2500	33. 13	1.52

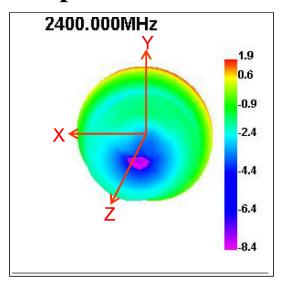
Antenna PeakGain(2.4/5.8GHz)

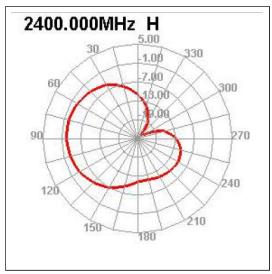
requency/MH	MaxGain/dBi
2400	1.88
2410	1.80
2420	1.78
2430	1.7
2440	1.75
2450	1.72
2460	1.70
2470	1.69
2480	1.66
2490	1.63
2500	1.50
5150	1.3
5200	1.44
5250	1.47
5300	1.83
5350	2.27
5400	2.33
5450	2.26
5500	2.85
5550	3.43
5600	3.51
5650	3.7
5700	2.12
5750	3.88
5800	3.92
5850	2.22

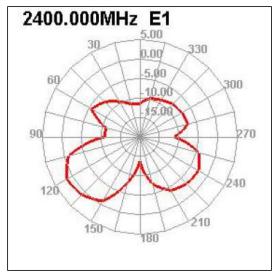


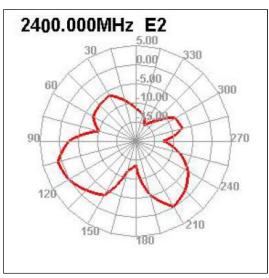
Antenna Gain

Radiation patterns—2D (2.4)









Antenna standard parameters

-. Technical specifications

Operating frequency range	2. 4GHz~2. 5GHz /5. 15~5. 85 GHz
S. W. R	≤1.92
Antenna gain	1. 88dB i
Switching mode	I-pex
Impedance	50 Ohm

二、Reliability test

Project	Test condition	Specifications
	Temperature, humidity, and air pressure are tested in the absence of specified conditions:	
_	1 temperature is -30 degrees C to +80	Normal electrical and
environment	2 relative humidity is 45%-85%	mechanical properties
	3 air pressure is 86kpa-106kpa	
High and low temperature test	Between 70 and 40 degrees C for 5 cycles, and then under normal conditions 1-2H, check the appearance quality.	The dimensions shall meet the requirements and shall meet the requirements of the mechanical and electrical properties.
Resistance to constant damp heat test	Relative humidity 95 + 3%, the test temperature: 40 degrees C, after continuing the 2H effect, the test sample after taking out the electrical performance of 5min, test product under normal conditions 1-2H, check the appearance quality	The dimensions shall meet the requirements and shall meet the requirements of the mechanical and electrical properties.
Vibration test	Frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, sweep frequency cycle times: 30 times	Normal electrical and mechanical properties
Drop test	1m high altitude drop	Normal electrical and mechanical properties
Drawing force test	To test the bearing strength with push pull test instrument: 10N	Normal electrical and mechanical properties
Voltage resistance	1 insulation spark voltage 1.5KV 2 sheath spark voltage 1.5KV 3 insulation resistance to sheath voltage 0.5KV	Normal electrical and mechanical properties
Attenuation value	2. 0 (nominal) 1. 0GHz 2. 9 (nominal) 2. 0GHz 3. 2 (nominal) 2. 4GHz 3. 7 (nominal) 3. 0GHz 4. 3 (nominal) 4. 0GHz 4. 8 (nominal) 5. 0GHz 5. 3 (nominal) 6. 0GHz	3.3dB/m (at20°C)