

# Shenzhen Kinghelm Electronics Co.,Ltd

# Approval

Ver.: A0

Customer:

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Description: SMA(J)-2.4G Waterproof Antenna-RG174-L=1.0M

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Part No.: KH-SMA(J)-2.4G-RG174-L1M

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Cus. Part No.:

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Date: 2021-12-02

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### Provider's Signature

Engineering Department	QC Department	Sales Department

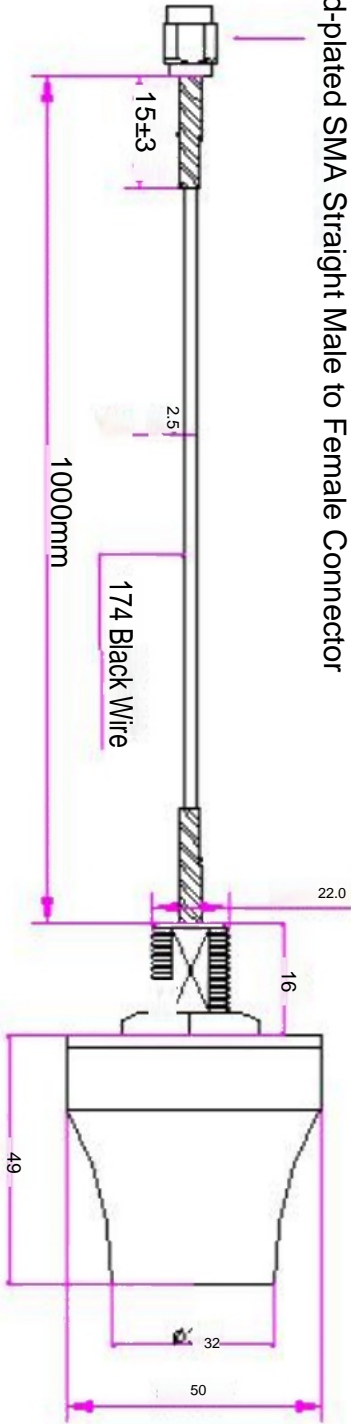
### Customer Acknowledges Signature

Engineering Department	QC Department	Purchasing Department

# Product Specification



## Gold-plated SMA Straight Male to Female Connector



### Note.

1. Clean lines, no damage to external connections;
2. Finished products need to be 100% through the conductivity test;
3. Finished products need to pass 100% full inspection;
4. Adopt environmentally friendly production program;
5. Connector pulling force SMA: 5KG;
6. Unspecified tolerance is subject to general tolerance.

REV	Date	Description	Name
A0			
A1			

General Tolerance	
0-1	± 0.1
1-10	± 0.3
11-30	± 0.5
31-100	± 0.8
101-300	± 1.0
301-	± 2.0
Angular	± 1°

Product Name	SMA-2.4G Antennae L-1.0M
Part Name	F020-000825
Cus. Part Name	
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## Electrical Parameters

### Electrical Specifications

Frequency Range	2400~2500MHz
VSWR	≤2.0
Gain	1-3DBI
Input Impedance	50 Ω

### Mechanical Specifications

Cable Color	Black
Input connector	SMA-J
Cable length	1.0M
Working Temperature	-40°C~+85°C
Working Humidity	20~80%

## Environmental Performance Testing:

Subjects	Test Conditions	Norm
Storage Environment	The testing parameters are as follows (without specified conditions): 1.Temperature: -30°C to +80°C 2.Relative humidity: 45% to 85% 3.Atmospheric pressure: 86 kPa to 106 kPa	Electrical and mechanical properties are in normal states
High and Low Temperature Test	Perform 5 cycles between 70°C and 40°C, followed by 1-2 hours under normal conditions to inspect visual quality.	Dimensions shall meet the provisions and satisfied with the mechanical and electrical properties.
Constant Humidity and Heat Test	At a relative humidity of 95% ± 3% and a test temperature of 40°C, apply for 2 hours. Within 5 minutes of removal, measure electrical performance. Allow the sample to rest for 1-2 hours under normal conditions and inspect visual quality.	Dimensions shall meet the provisions and satisfied with the mechanical and electrical properties.
Vibration Test	Vibration frequency range: 10-55 Hz, displacement amplitude: 0.35 m, acceleration amplitude: 50.0 m/s <sup>2</sup> , sweep frequency cycle: 30 times.	Electrical and mechanical properties are in normal states
Drop test	Drop the sample from a height of 1 meter three times in the directions perpendicular to each other.	Electrical and mechanical properties are in normal states