SKA02M3525-30RPSJN Dual-Frequency Antenna

Document Information	
Title	SKA02M3525-30RPSJN Dual-Frequency Antenna
Type	Datasheet
Code	SL-25070574
Version	V1.02 (28-July-2025)
Confidentiality Level	Public

Revision History

Version	Description	Writer	Date
V1.01	Original version	Lena	20240911
V1.02	Update parameters	Taylor	20250728

Table of Contents

1 Product Appearance

Dimensions	48*48*19.5mm	Mounting Method	Adhesive
Weight	90 g	Connector Type	SMA
Shell Color	Black	Cable	RG174, 3meters

2 Operating Conditions

Temperature：-40℃～+85℃

Humidity：95％～100％

3 Storage Conditions

Temperature：-40℃～+85℃

Humidity：95％～100％

4 GPS/BD Antenna Specifications

NO.	Item	Specification	Post-Environmental Tolerance*
1	Receiving Frequency Range (MHz)	1166-1186（MHz） 1555-1610（MHz）	±2.5（MHz）
2	V.S.W.R (at Center Frequency)	≤1.5	±0.5
3	Gain (Zenith, dBi typ, with 70 mm square GND plane)	3.5	±0.5
4	Axial Ratio (with 70 mm square GND plane)	6.0dB	±0.2
5	Polarization	Right-Hand Circular Polarization	----
6	Characteristic Impedance (Ω)	50	----
7	Frequency Temperature Coefficient (ppm/°C)	0±10	----

* Post-Environmental Tolerance refers to allowable deviation after environmental tests.

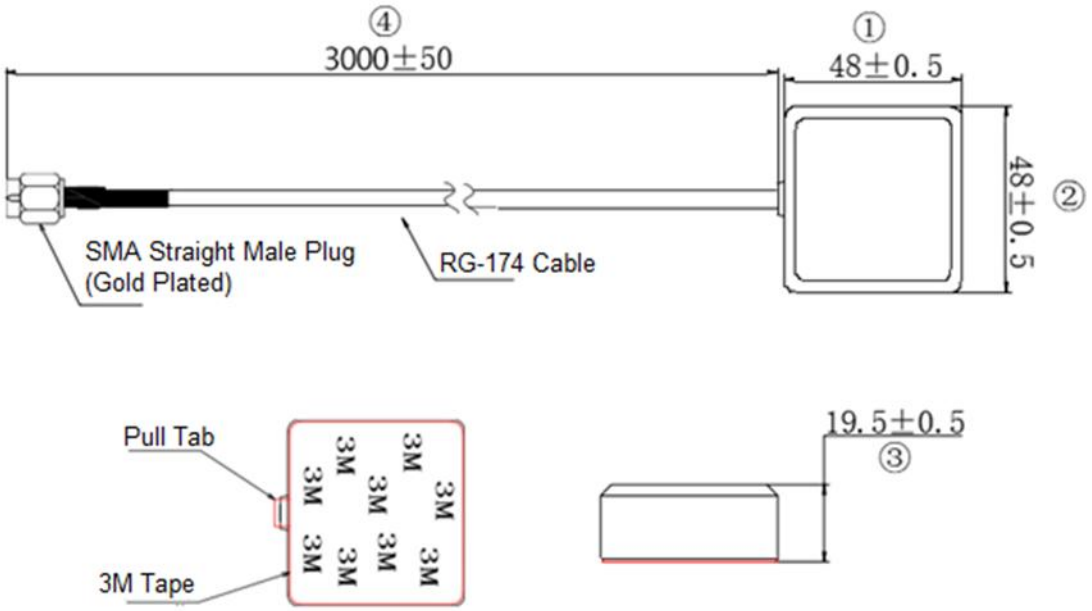
5 GPS/BD Amplifier Specifications

Item	Specification
LNA Gain (dB)	28 ± 2 (tunable for specific frequency points)
Output V.S.W.R	<2.0

Output Impedance (Ω)	50	
Passband Ripple (dB, 1575.42 ± 5 MHz, LNA only)	±1.0	
LNA Output 1 dB Compression Point (dBm, LNA only)	>-2	
Out-of-Band Suppression	1575MHz±20MHz	Out-of-Band Suppression
	1166-1186MHz±10MHz	42dBc min
Supply Voltage (V)	2.7~3.6	
Operating Current (mA)	<20	

6 Product Photos

7 Mechanical Drawings



Unless otherwise specified:

- X = ±2 mm
- X.X = ±0.3 mm
- X.XX = ±0.05 mm

Unit: mm

8 Contact Information

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