

# PRODUCT SPECIFICATION

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## Waterproof GPS Active Antenna Specifications 10D Antenna with 3M RG174+SMA Straight Plug



Product No. AP001WSGPS005

### Mechanical

Cable Type	RG174
Cable Length	3M, 5M
Mounting Method	Magnet
Connector Type	SMA, SMB, MCX, ...etc
Color	Black

### Electrical

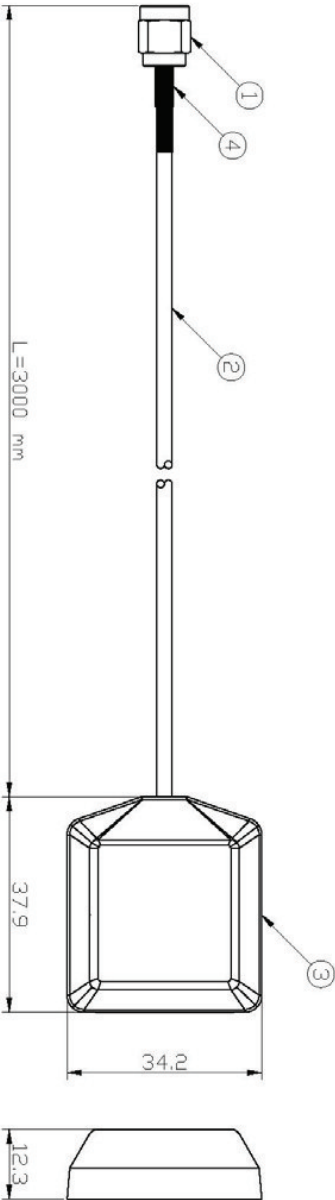
Center Frequency(MHz)	1575.42±1.023 MHz(when covered with a radome and measured on LNA ground plane)
Bandwidth (10dB return loss)MHz	10 MHz min
Gain at Zenith (dBic)	1 dBic typ
Gain at 10° elevation	-5 dBic typ
Polarization	R.H.C.P
Impedance (ohm)	50 ohm
Axial Ratio	1.0 dB typ

### LNA Performance

Center Frequency	1575.42±1.023 MHz
Gain	30~37 dB (ps:3v/32dB)
Noise Figure	1.4 dB typ (ps:3v/1.35dB)
Filter Out Band Attenuation	Saw filter 40dB typ      fo±50MHz 45dB min      fo±100MHz (fo=1575.42MHz)
Output VSWR	2.0 max
Voltage	DC=2.5~5.5V
Current	DC=8~23mA(ps:3v/10mA)

**RoHS COMPLIANT**

REVISONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A	A	INITIAL DESIGN	



TITLE		CUSTOMER P/N		UNIT	REV.
GPS 10D Antenna + RG174L3000 + SMA ST Plug [Waterproof]				mm	A
DWG NO.					
GENERAL TOLERANCES					
X					
XX					
MM					
MM					
ANGLES					
SCALE		1 : 1		APPROVALS	DATE
SIZE		A4		DRAWN BY:	
DRAWN BY:				CHKD BY:	
APPROVALS				APPR BY:	
SHEET		1 of 1			

NO	DESCRIPTION	QTY	DRAWN NO.
04	Heatshrink	1	
03	GPS 10D Antenna (cover:Black, Waterproof)	1	
02	RG174-MIT coaxial cable (Black)	1	
01	SMA Straight Plug (Gold)	1	

NO	DESCRIPTION	QTY	DRAWN NO.
8		5	
7		4	
6		3	
5		2	
4		1	