

BS-142AJ

GPS Antenna

Datasheet

Revision: 5.39

Date:2019.10



Table of parameters:

1. Characteristics of Ceramic Antenna

Item	Specification
Range Of Receiving Frequency	GPS L1:1575.42MHz
Gain	<4.5dBi
Output VSWR	<1.5
Impedance	50Ω
Band Width	±10MHz
Polarization	RHCP
Axis ratio	<3dB
Horizontal coverage angle	360°
Frequency Temperature Coefficient	0±10

2. LNA Specification

Item	Specification
LNA Gain	33dB
Noise figure	<1.8dB(Only LNA)
Output VSWR	<1.5
Output impedance	50Ω
Passband Ripple	±1.0dB(Only LNA)
Supply Voltage	2.8V-5.0V
Supply Current	≤20mA

3. Work environment

Item	Specification
Operational Temperature	-40°C - +85°C

GPS Antenna BS-142AJ Datasheet

Storage Temperature	-40°C - +85°C
Wet degree	40% - 95%

4. Structural characteristics

Item	Specification
Size	48*37*16mm
Weight	≤ 110g
Mounting	Magnetic Bottom
Connector	SMA-J
Cable	RG174 Cable
Length	2m

5. Structural diagram

