GNSS

ST0326-41-001-A

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Datasheet

GNSS

GNSS active antenna

Features:

Frequency 1575-1602 MHz
Polarization RHCP
LNA Gain 28dB
Current consumption 10-15mA
Cable RG-174 with SMA



- GPS & Glonass
- Navigation
- Location Based Services
- Fleet management



GNSS Antenna

Electrical Specifications				
Antenna Characteristics				
Frequency (MHz)	1575.42 ± 3	1602 ± 8		
Return Loss (dB)	<-10	<-10		
Gain (dBi) @Zenith (28mm × 28mm GND)	-0.5	2.5		
Polarization	RHCP	RHCP		

GNSS ST0326-41-001-A



LNA Characteristics				
Frequency (MHz)	1575.42 ± 3 1602 ± 8			
Gain (dB)	28 ± 3			
Noise Figure (dB) @3.0V	1.5 Typ.			
Current Consumption (mA) @3.0V	10~15			
Operation Voltage (V)	2.7~5.0			
Output Impedance (Ω)	50			
ESD (kV)	2.5 HBM			

Total Characteristics				
Frequency (MHz) 1575.42 ± 3 1602 ±				
Gain (dB) at Zenith	27.5 ± 3 – (Cable Loss)	30.5 ± 3 – (Cable Loss)		
Output Impedance (Ω)	50			
VSWR	2.0 Max.			

*Note: Cable Loss: 1.4 dB/M (Max.)



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Mechanical Sp	pecifications
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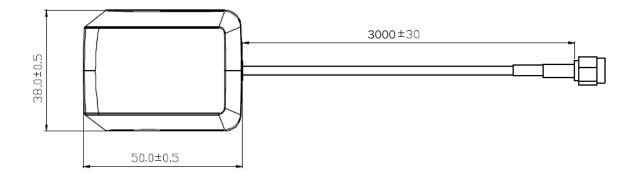
Environmental			
Temperature Range (°C)	-40 to 85		
Humidity	Non-condensing 65°C 95% RH		
IP Rating	IPX7		
BoHS Compliant			

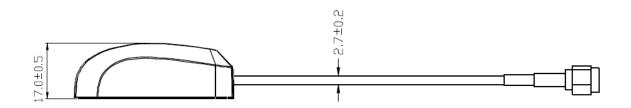
Rons Compliant

Part Number	Length (mm)	Weight (g)	Connector Type	Cable Type	Radome
ST0326-41-001-A	50	62.7	SMA	RG-174	ABS

Mechanical Drawing

Unit: mm



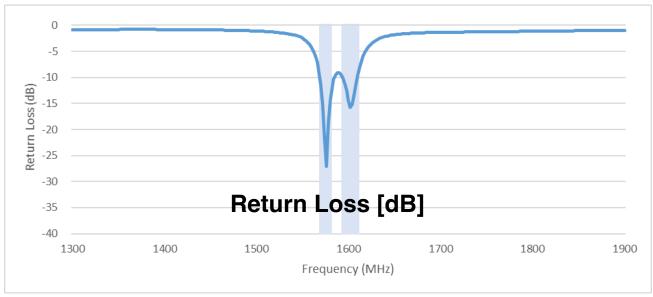


ST0326-41-001-A



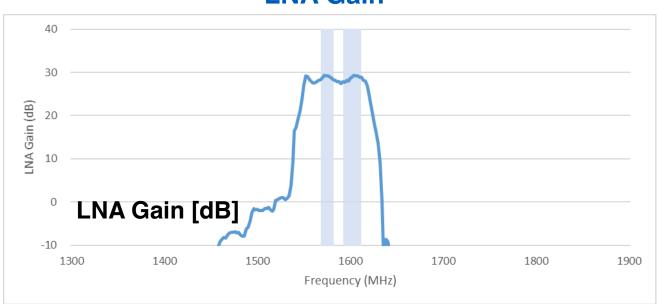
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Antenna Return Loss



Blue background represents frequency response.

LNA Gain



Blue background represents frequency response.





Revisions					
Rev	Description	Date	ECN	Approval	
Α	Initial Release	2022-10-25	ST0326-41-001-A-RA00	ATC	

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