

Product: GNSSMOD-25-25-18

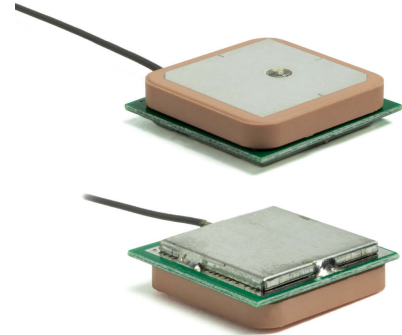
Product Order Code:

BM-02 RANGE

GNSS Active Patch Antenna

GNSS (GPS, GLONASS, Galileo, QZSS)

- GNSS Module with 18dB Single Stage Amplifier
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via enquiry@bloomice.com



Technical Data

Dimensions	25mm x 25mm x 7.2mm (D) (Excluding Self Adhesive Pad)	
Weight	34g (Excluding cable and connector)	
Construction Materials	Ceramic Patch Element / FR4 PCB / Tin Cover	
Mounting Arrangement	Self Adhesive Pad	
Temperature Range	-40 to +85 Degree C	
Typical Sheer Force Test	50Kgf (IEC62137-1-2-2007)	
Frequency Range	GPS, GALILEO, QZSS:	1575.42 MHz (+/- 5MHz)
	GLONASS:	1602 MHz (+/- 5MHz)
Impedance	50 Ohm	
Polarisation	RHCP	
Radiation Pattern	Hemispherical	
Gain Coverage	> -4dBi at 90 Degree < 0 < +90° (over 75% Volume)	

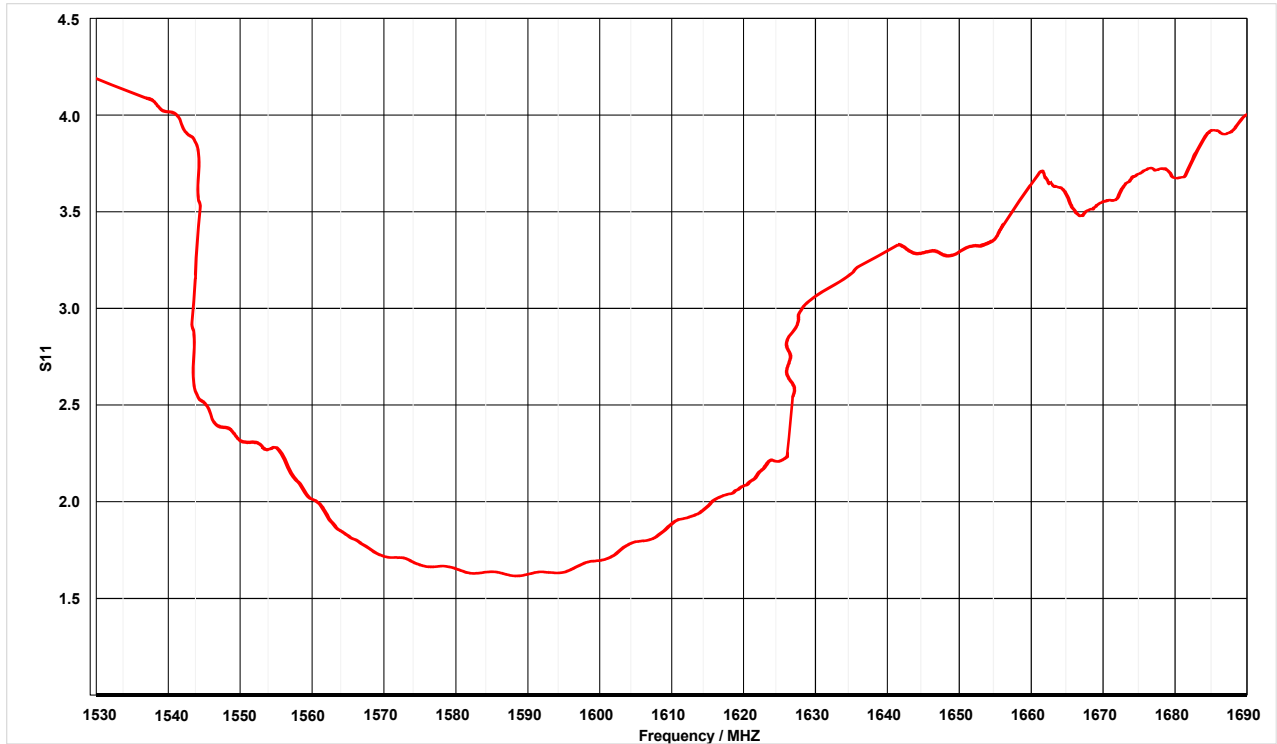
LNA Amplifier Performance Data

Return loss (VSWR)	<1.5:1 (@ 1575.42MHz & 1602MHz)
Active Gain (Amplification)	18dB (Without Cable)
Operational Voltage	2.7v to 5.5v
Current Consumption	11mA (Max)
Noise Figure	1.5dB (Typical)
Filter Out of Band Attenuation	f0=1575.42MHz 7dB Min f0 +/-20MHz 20dB Min f0 +/-50MHz 30dB Min f0 +/-100MHz
Cable types Available	MICRO 0.81 / 1.13 / 1.32 / RG178 / RG316 / RG174 Low Loss
Cable Length	According to customer specification
Connector	According to customer specification
Test & Measurement Conditions	Mounted on a 70mm x 70mm Ground Plane MICRO 1.13 Cable 100mm / IPEX UFL Connector

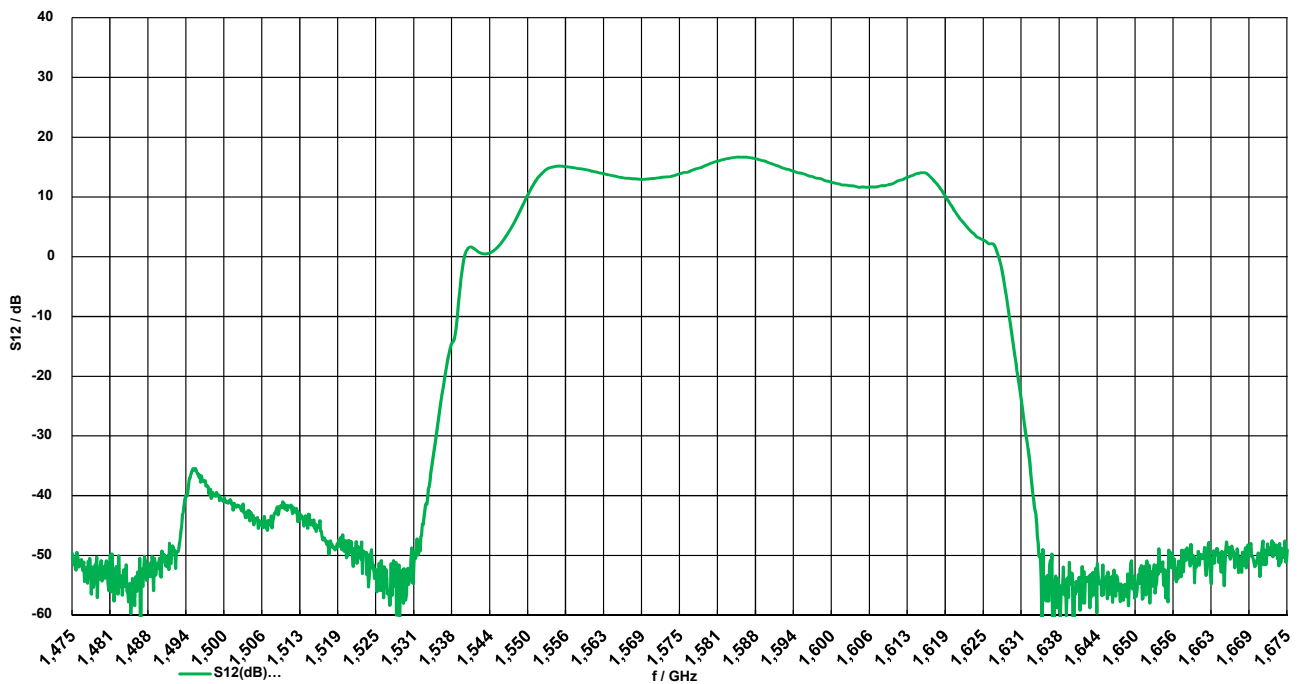
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Typical VSWR Data



Typical GNSS LNA Gain



CAD Data

