

Product: GPSMOD-12-12-5.5 (18dB)

Product Order Code:

BM-02 RANGE

GPS Active Patch Antenna

GNSS (GPS, Galileo, QZSS)

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



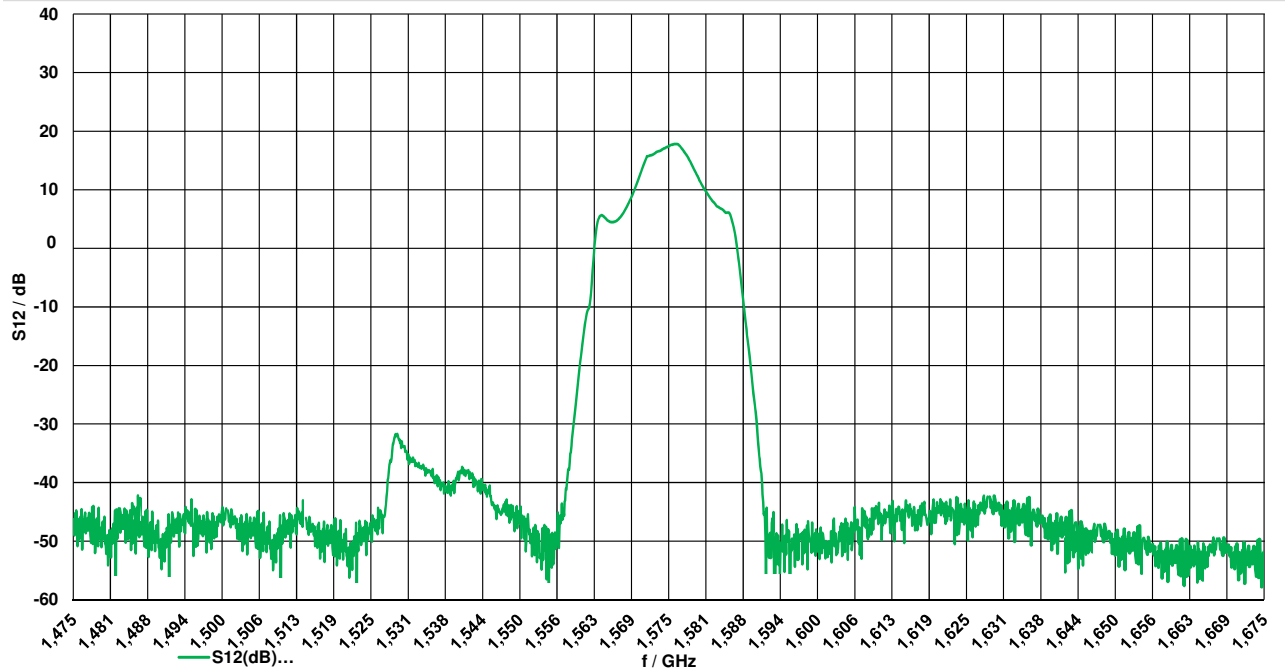
Technical Data

Dimensions	12mm x 12mm x 5.5mm (D) (Excluding Self Adhesive Pad)
Weight	24g (Excluding cable and connector)
Construction Materials	Ceramic Patch Element / FR4 PCB / Tin Cover
Mounting Arrangement	Surface Mounted / Self Adhesive - Ground Plane Independent
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)
Impedance	50 Ohm
Polarisation	RHCP
Radiation Pattern	Hemispherical
Gain Coverage	>-2dBi at 90 Degree <0 <+90°(over 75% Volume)
LNA Amplifier Performance Data	
Return loss (VSWR)	<1.5:1 (@ 1575.42MHz)
Active Gain (Amplification)	18dB (Without Cable)
Operational Voltage	2.7v to 5v
Current Consumption	3mA - 11mA (Max)
Noise Figure	<1.5dB
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

Product: GPSMOD-12-12-5.5 (18dB)

Product Order Code:
BM-02 RANGE

Typical GPS LNA Gain



CAD Data

