

Product: BODY ADYNA GNSS / WIFI

Product Order Code:
BM-02 RANGE

Rugged Profile Body Mounted Antenna

GPS, Galileo, QZSS, WLAN, WIFI,
BLUETOOTH, ZIGBEE, ISM

- Low profile robust combination antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via enquiry@bloomice.com



Technical Data

Dimensions	76mm x 15.6mm (H) (Including mounting pad)
Weight	114g (Excluding cables and connectors)
Construction Materials	PC/ABS / UL94 V0 / UV Stable
Maximum Torque Setting (Nm)	6 Nm
Mounting Arrangement	M14 Thread / Stainless Steel Split Nut & ABS pad Mounting on any surface (glass, metal, plastic etc.)
Temperature Range	-40 to +85 Degree C
Protection Class	IP67 (IEC 60529), IP69

WLAN / WIFI / BLUETOOTH / ZIGBEE / ISM

Frequency Range	Bluetooth: IEEE Standard 802.11b	2400 MHz - 2484 MHz 2412 MHz - 2500 MHz
Peak Gain		@ 2400 MHz; 4.31 dBi @ 2450 MHz; 4.02 dBi @ 2500 MHz; 3.76 dBi
Average Gain		3,1 dBi
Impedance		50 Ohm
Polarisation		Linear
Radiation Pattern		Omni-directional
VSWR		<2:1 (All Bands)
Input Power		25w (Maximum)
Cable / Connector		According to customer specification
Test & Measurement Conditions		300mm x 300mm Ground Plane

dBi: Referenced to an isotropic radiator

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Technical Data (Continued)

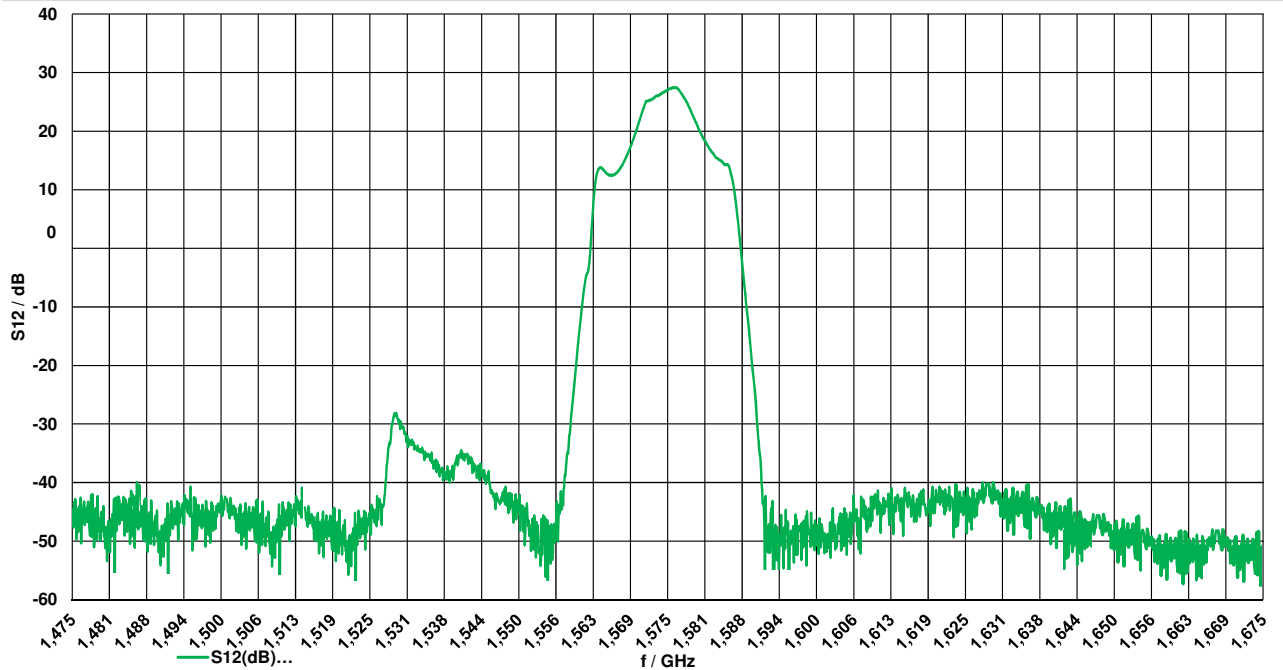
GPS / GALILEO / QZSS

Frequency Range	GPS, GALILEO, QZSS:	1575.42 MHz Centre Frequency
Impedance		50 Ohm
Polarisation		RHCP
Radiation Pattern		Hemispherical
Return loss (VSWR)		<1.3:1 @ 1575.42MHz
Gain		28dB @ 3v / 30dB @ 5v
Operational Voltage		3.3v to 5.5v
Current Consumption		11mA to 18mA (Typical)
Power Consumption		40mW (Typical)
SAW Filter		Pre-filter
Noise Figure		1.5dB (Typical)
Cable types Available		LL100 50 Ohm Low Loss / RG174 / RG316
Cable Length		According to customer specification
Connector		According to customer specification
Test & Measurement Conditions		300mm x 300mm Ground Plane / 1000mm LL100 Cable

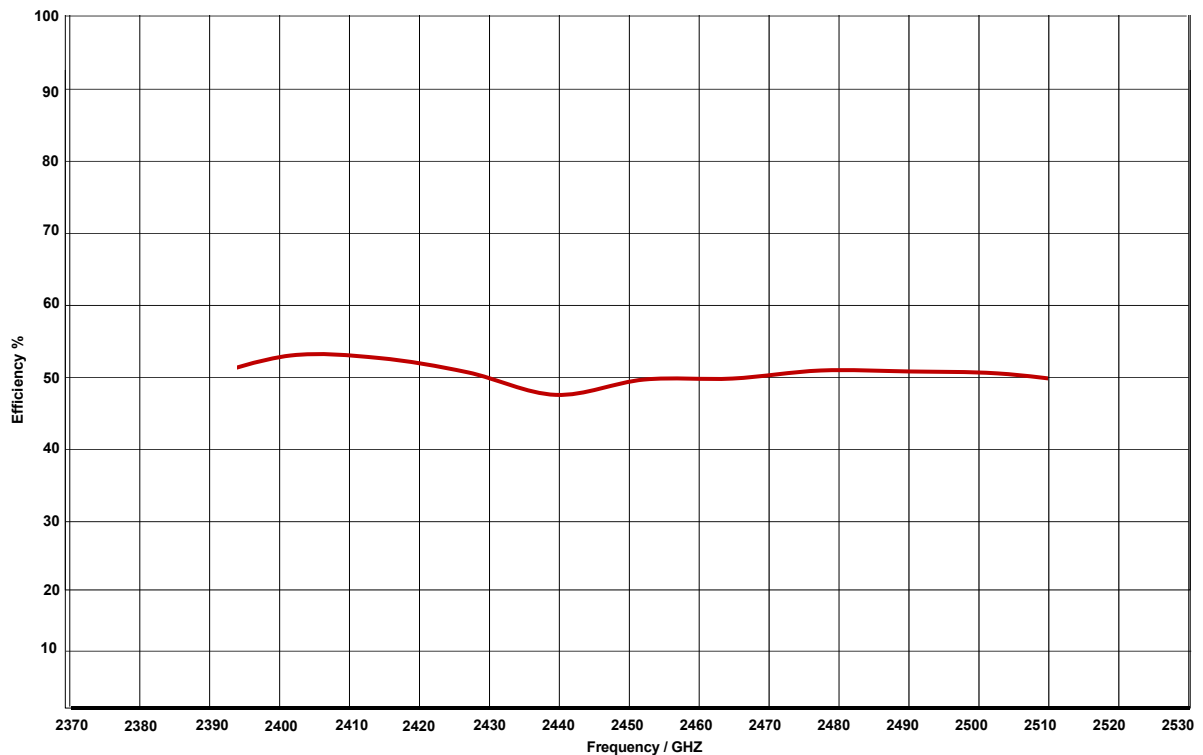
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Typical GPS LNA Gain



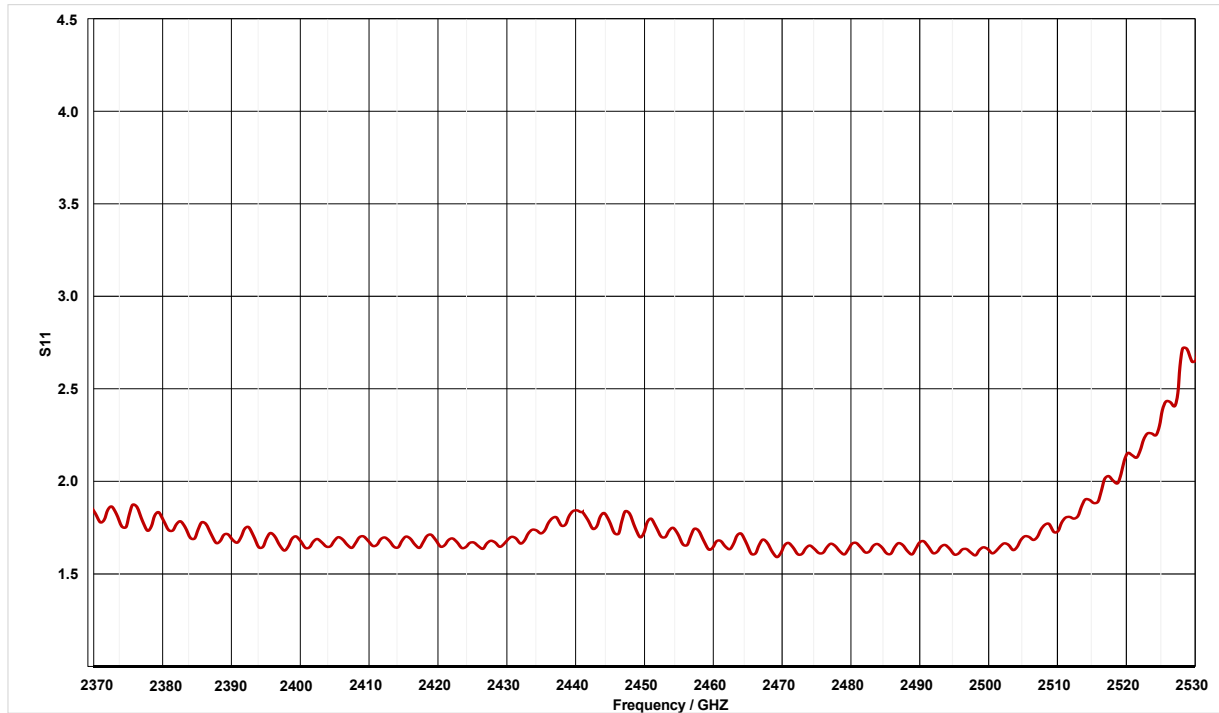
Radiated Efficiency (WIFI)



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Typical VSWR Data (WIFI)



CAD Data

