

Product: BODY ADYNA MINI GNSS / LTE

Product Order Code:  
BM-02 RANGE

## Body Mounted Antenna

GPS, GLONASS, Galileo, QZSS  
LTE-4G, CELLULAR (2G, 3G)

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



### Technical Data

Dimensions	46.6mm (D) x 16.4mm (H) (Including self adhesive pad)
Weight	48g (Excluding cables and connectors)
Construction Materials	Brass Thread / Nut PC/ABS UL94 V0 / UV Stable
Mounting Arrangement	M10 Split Nut combined with 3M Adhesive Pad Ground Plane Independent - Mount on any surface
Temperature Range	-40 to +85 Degree C
Protection Class	IP68 (IEC 60529)

### GPS, GLONASS, Galileo, QZSS

Frequency Range	GPS, Galileo, QZSS: 1575.42MHz +/-1.023MHz GLONASS: 1602MHz +/-4MHz
Ceramic Patch Size	25mm x 25mm x 4mm
Impedance	50 Ohm
Polarisation	RHCP
Radiation Pattern	Hemispherical
VSWR	<1.4:1 (All Frequencies)
Active Gain (Amplification)	28dB @ 3v / 30dB @ 5v
Operational Voltage	2.7v to 5.5v
Current Consumption	11mA @ 2.7v / 15mA @ 5v
Power Consumption	28mW (Typical)
Axial Ratio	3dB Maximum
Noise Figure	1.5dB (Typical)
Cable types Available	LL100 50 Ohm Low Loss / RG174
Cable Length	According to customer specification
Connector	According to customer specification
Test & Measurement Conditions	300mm x 300mm x 2mm Ground Plane 1000mm LL100 Cable / SMA Male connector

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## Technical Data (Continued)

### Cellular LTE / 2G / 3G

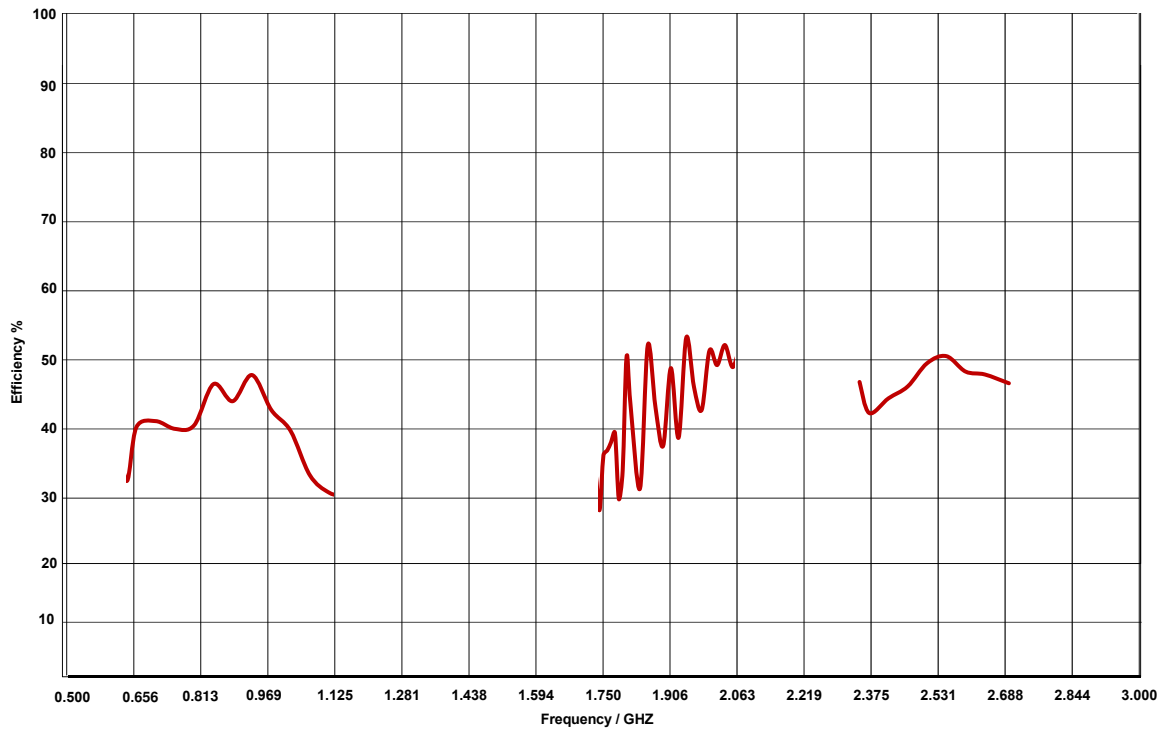
Frequency Range	LTE 700 + GSM 900:	698 - 960 MHz
	GSM 1800:	1710 - 1880 MHz
	UMTS:	1920 - 2170 MHz
	LTE (High):	2300 - 2700 MHz
Impedance		50 Ohm
Polarisation		Linear
Average Gain	LTE 700 + GSM 900:	@ 790-960 MHz; 0dBi
	GSM 1800:	@ 1710-1880 MHz; 2.14dBi
	UMTS:	@ 1920-2170 MHz; 2.14dBi
	LTE (High):	@ 2300-2700 MHz; 2.14dBi
Radiation Pattern		Omni-Directional (individual patterns detailed below)
Max Power @ 30°C	LTE 700 + GSM 900:	50 Watts @ 790-960 MHz
	GSM 1800:	50 Watts @ 1710-1880 MHz
	UMTS:	50 Watts @ 1920-2170 MHz
	LTE (High):	50 Watts @ 2300-2700 MHz
Return loss (VSWR)		≤ 2.2:1 (All Bands)
Radiator Type		Dipole
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

dBi: Referenced to an isotropic radiator

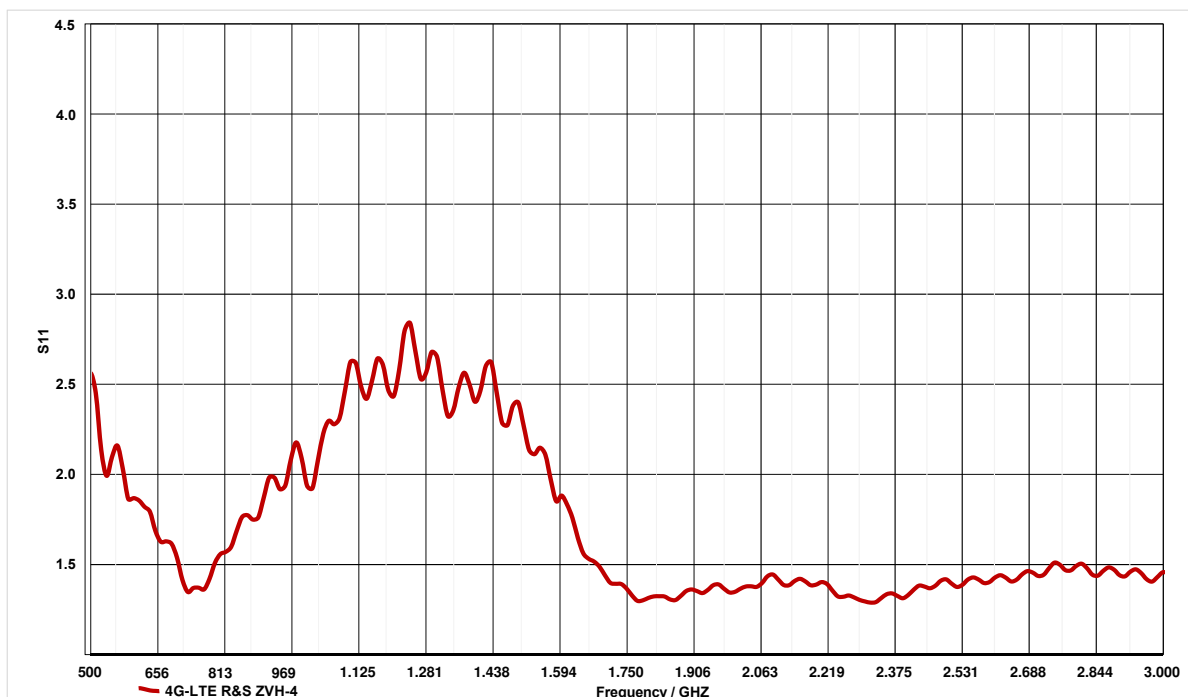
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### Radiated Efficiency (LTE)



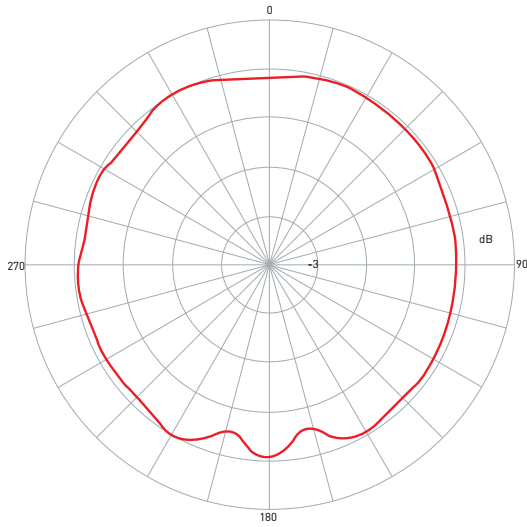
### VSWR Data (LTE)



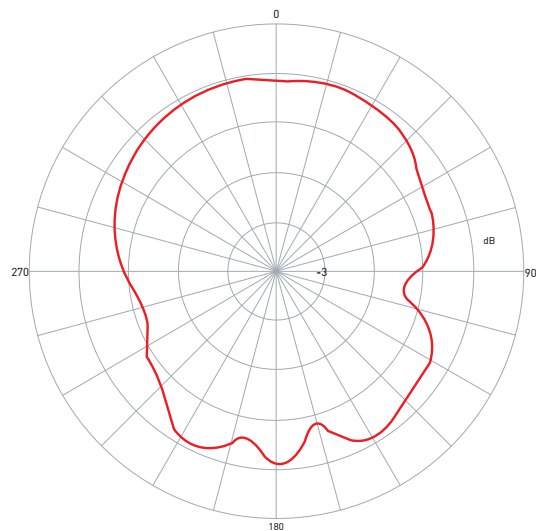
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**Radiating Patterns (GNSS)**

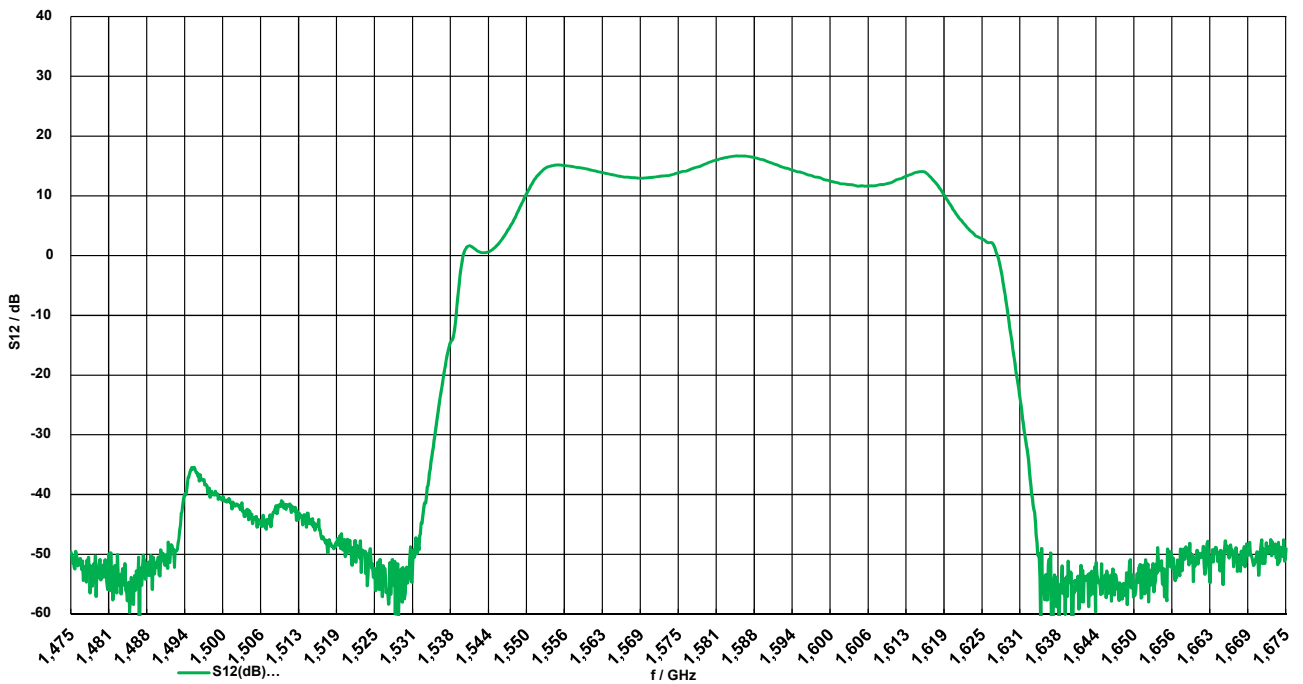


XZ Plane  
 1575.42MHz



YZ Plane  
 1575.42MHz

**Typical GNSS LNA Gain**



CAD Data

