

Product: BODY ADYNA J-81

Product Order Code:
BM-02 RANGE

Body Mounted Antenna

GPS, GLONASS, Galileo, QZSS
5G, 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



Technical Data

Dimensions	81.2mm (D) x 14.6mm (H)
Weight	48g (Excluding cables and connectors)
Construction Materials	Brass Thread / Nut PC/ABS UL94 V0 / UV Stable
Mounting Arrangement	M12 x 1 Thread combined with 3M Adhesive Pad Ground Plane Independent - Mount on any surface
Temperature Range	-40 to +85 Degree C
Protection Class	IP67 (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 5G / LTE / 2G / 3G

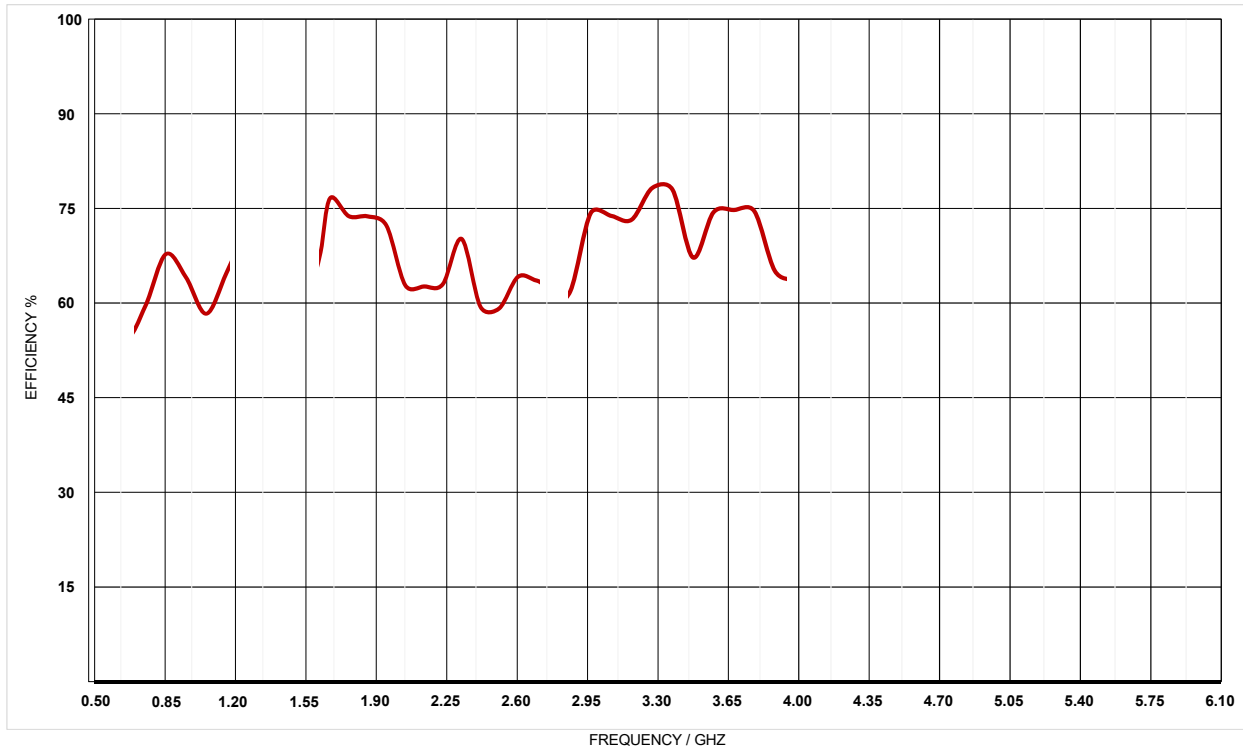
Frequency Range	LTE 700 + GSM 900: GSM 1800: UMTS: LTE (High): 5G:	698 - 960 MHz 1710 - 1880 MHz 1920 - 2170 MHz 2300 - 2700 MHz 2900 - 3900 MHz
Impedance		50 Ohm
Polarisation		Linear
Average Gain	LTE 700 + GSM 900: GSM 1800: UMTS: LTE (High): 5G:	@ 698-960 MHz; 0dBi @ 1710-1880 MHz; 2.14dBi @ 1920-2170 MHz; 2.14dBi @ 2300-2700 MHz; 2.14dBi @ 2900-3900 MHz; 2.5dBi
Radiation Pattern		Omni-Directional
Max Power @ 30°C	LTE 700 + GSM 900: GSM 1800: UMTS: LTE (High): 5G:	50 Watts @ 698-960 MHz 50 Watts @ 1710-1880 MHz 50 Watts @ 1920-2170 MHz 50 Watts @ 2300-2700 MHz 50 Watts @ 2900-3900 MHz
Return loss (VSWR)		≤ 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

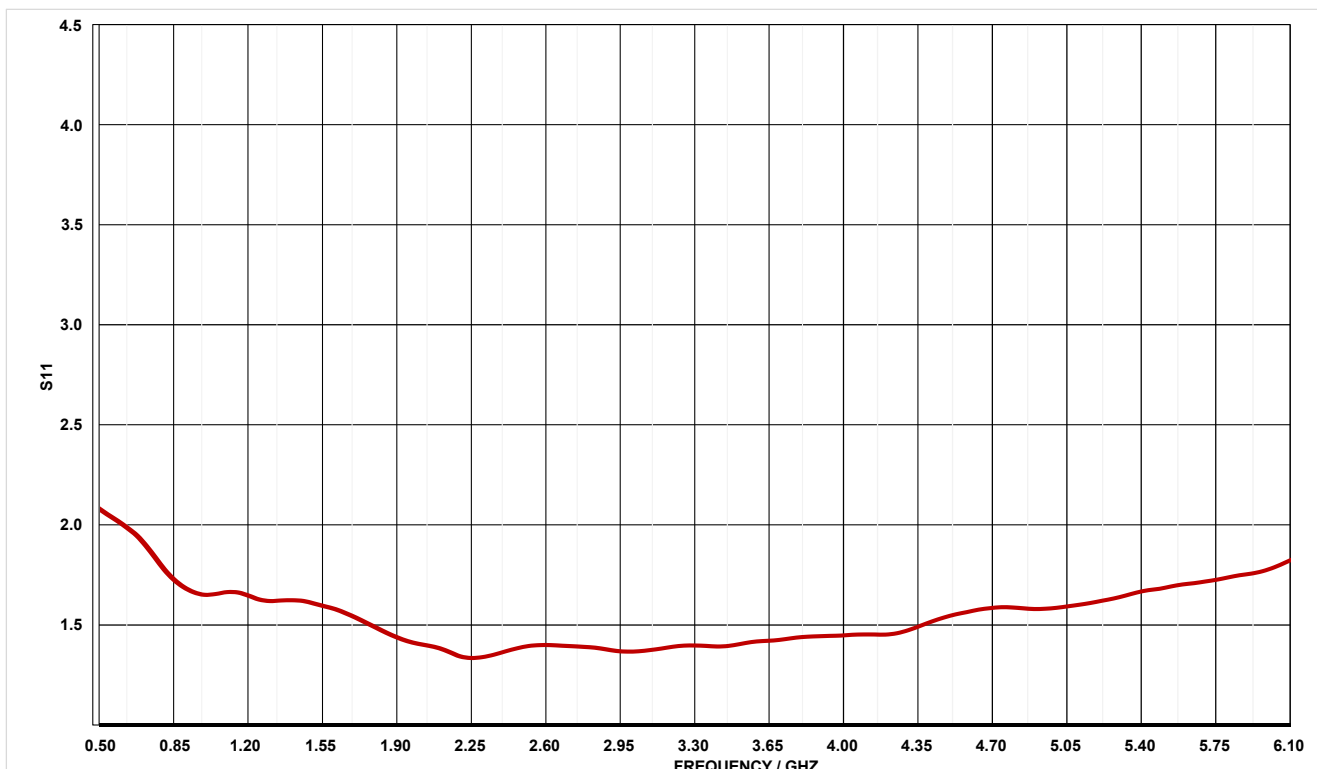
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Radiated Efficiency (LTE/5G)



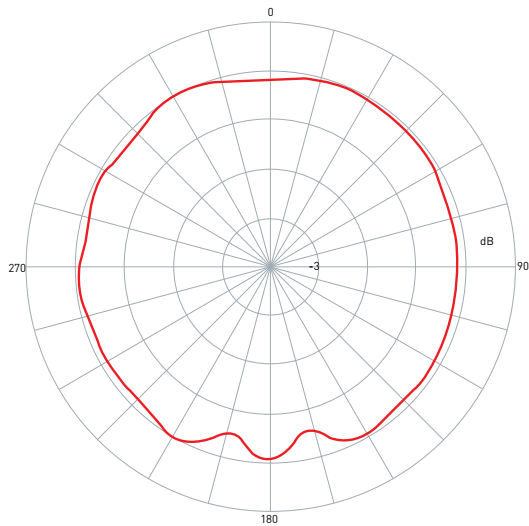
VSWR Data (LTE/5G)



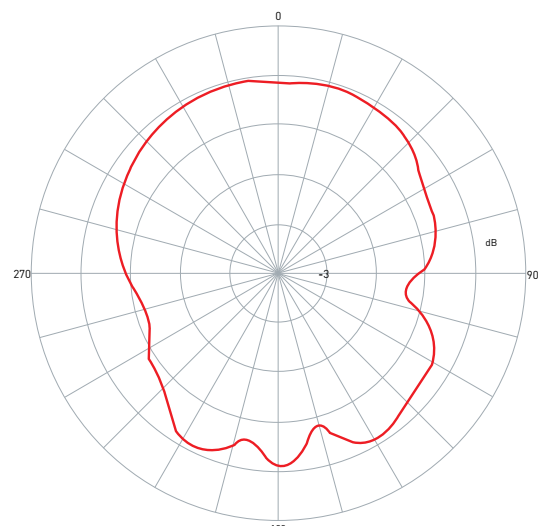
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Radiating Patterns (GNSS)

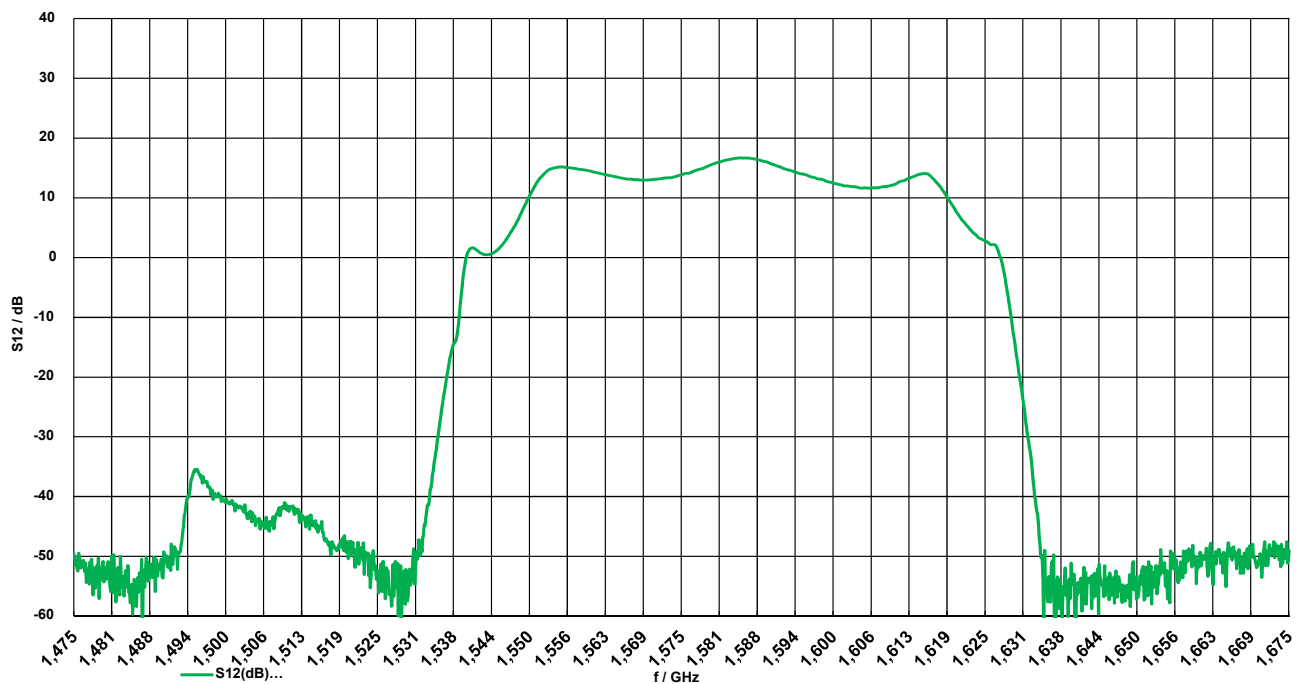


XZ Plane
1575.42MHz



YZ Plane
1575.42MHz

Typical GNSS LNA Gain



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CAD Data

