

Product: PERNO GNSS/4G

Product Order Code:
BM-02 RANGE

Wideband Telemetry Antenna

GNSS, LTE-4G, CELLULAR (2G, 3G)

- Robust wideband body mounted antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via enquiry@bloomice.com



Technical Data

Dimensions		48.1mm (H) Above Panel Height x 50mm Diameter (Base)
Weight		70g (Excluding cable)
Construction Materials		PC/ABS UL94 V0 UV Stable
Mounting Arrangement		M12 Stainless Steel Split Nut Mounting on any surface (glass, metal, plastic etc.)
Temperature Range		-40 – +85° C
Protection Class		IP67 (IEC 60529)
Cellular LTE / 2G / 3G		
Frequency Range	LTE 700 + GSM 900: GSM 1800: UMTS: WLAN + LTE (High):	700 - 960 MHz 1710 - 1880 MHz 1920 - 2170 MHz 2300 - 2655MHz
Impedance	50 Ohm	
Polarisation	Linear	
Peak Gain	LTE 700 + GSM 900: GSM 1800: UMTS: WLAN + LTE (High):	@ 790-960 MHz; 2.1dBi @ 1710-1880 MHz; 4.3dBi @ 1920-2170 MHz; 3.6dBi @ 2300-2700 MHz; 3.2dBi
Radiation Pattern	Omni-Directional	
Max Power @ 30°C	LTE 700 + GSM 900: GSM 1800: UMTS: WLAN + LTE (High):	35 Watts @ 790-960 MHz 35 Watts @ 1710-1880 MHz 35 Watts @ 1920-2170 MHz 35 Watts @ 2300-2700 MHz
Return loss (VSWR)	≤ 2:1 (All Bands)	
Radiator Type	Folded Monopole	
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 Ground Plane / 1000mm LL100 Cable	

dBi: Referenced to an isotropic radiator

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- Rugged wideband body mounted antenna
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Technical Data (Continued)

GNSS (GPS / GALILEO / QZSS & GLONASS)

Frequency Range	GPS, GALILEO, QZSS: GLONASS	1575.42 MHz Centre Frequency (+/- 1.024MHz) 1602 MHz Centre Frequency (+/-4MHz)
Impedance		50 Ohm
Polarisation		RHCP
Radiation Pattern		Hemispherical
Return loss (VSWR)		<1.3:1 (@ 1575.42MHz & 1602MHz)
Gain		28dB @ 3v / 30dB @ 5v
Operational Voltage		2.7v 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

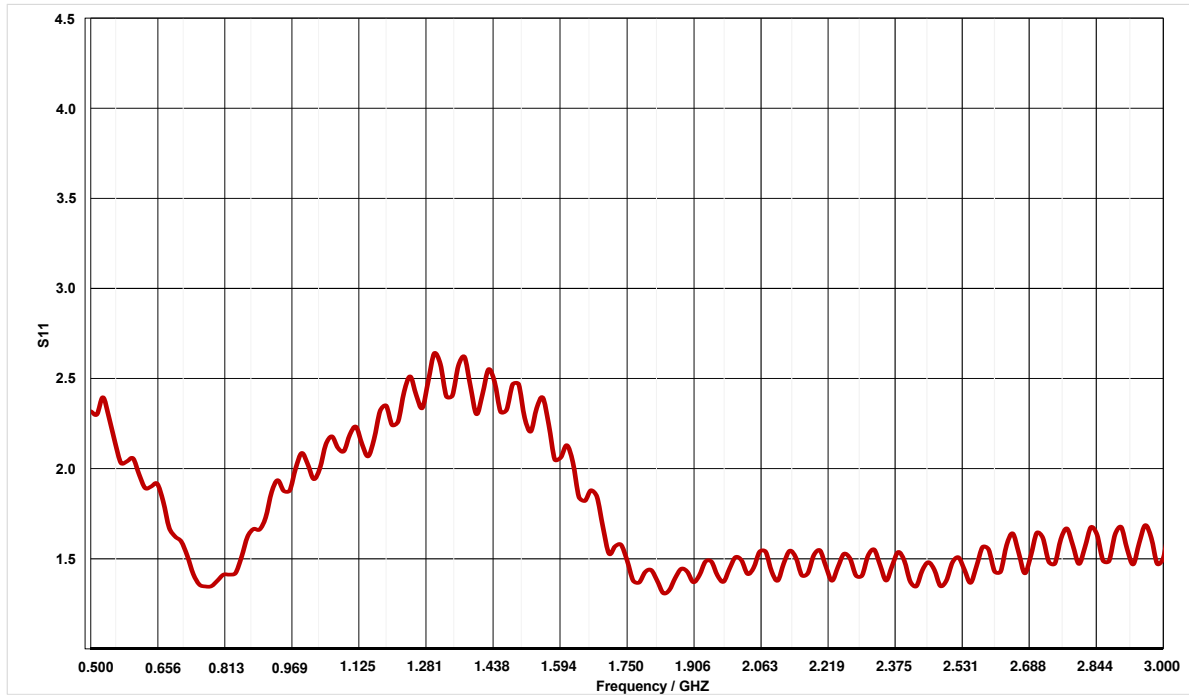
dBi: Referenced to an isotropic radiator

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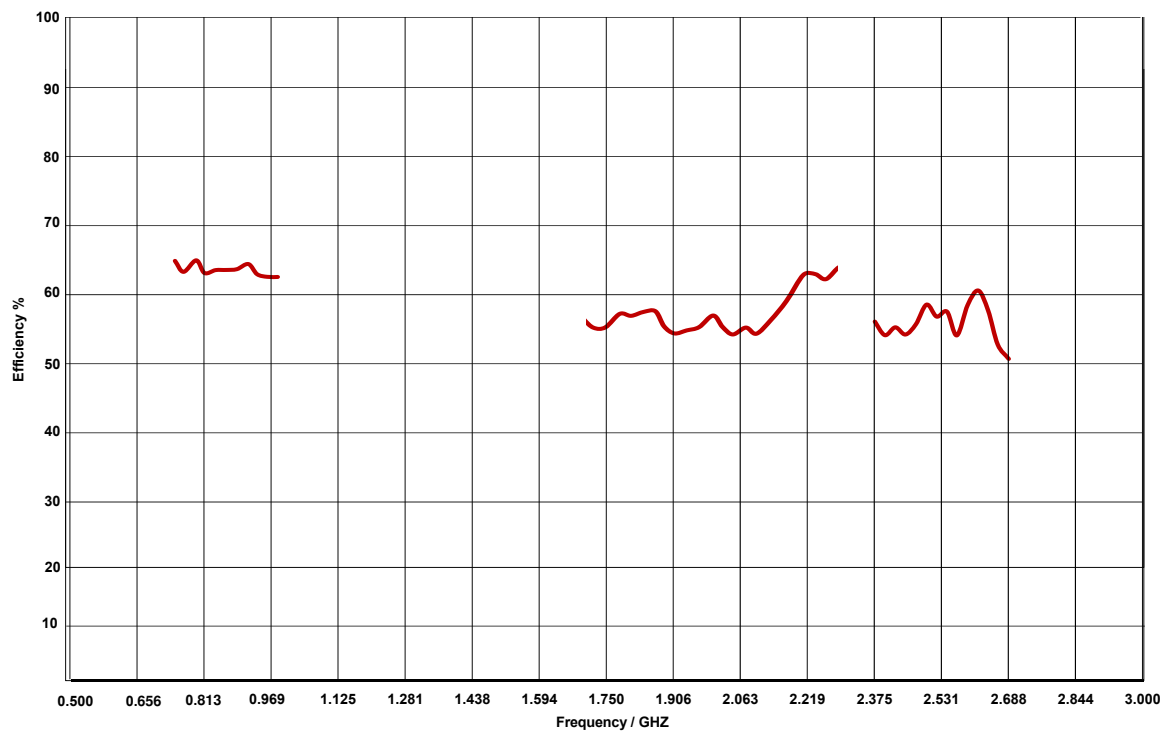
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VSWR Data

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Radiated Efficiency



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CAD Data

