

Product: CASCO GNSS / LTE

Product Order Code:
BM-02035

Wideband Telemetry Antenna

GNSS, LTE-4G, CELLULAR (2G, 3G)
PCS, LTE CAT-1, CAT-M, NB-IoT

- Rugged 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	35mm (H) Above panel height x 68mm Diameter (Base)	
Weight	160g (Excluding cable)	
Construction Materials	PC/ABS UL94 V0 UV Stable	
Mounting Arrangement	M20 Thread to Stainless Steel Nut Ground Plane Dependent	
Temperature Range	-40 – +85° C	
Protection Class	IP67 / IK09 (IEC 60529)	
Cellular LTE / 2G / 3G		
Frequency Range	LTE 700 + GSM 900:	700 - 960 MHz
	GSM 1800:	1710 - 1880 MHz
	UMTS:	1920 - 2170 MHz
	LTE (High):	2300 - 2655MHz
Impedance	50 Ohm	
Polarisation	Linear	
Peak Gain	LTE 700 & GSM 900:	@ 790-960 MHz; 2.14dBi
	GSM 1800:	@ 1710-1880 MHz; 2.14dBi
	UMTS:	@ 1920-2170 MHz; 2.14dBi
	LTE (High):	@ 2300-2700 MHz; 2.14dBi
Radiation Pattern	Omni-Directional	
Max Power @ 30°C	LTE 700 & GSM 900:	25 Watts @ 790-960 MHz
	GSM 1800:	25 Watts @ 1710-1880 MHz
	UMTS:	25 Watts @ 1920-2170 MHz
	LTE (High):	25 Watts @ 2300-2700 MHz
Return loss (VSWR)	≤ 2:1 (All Bands)	
Radiator Type(s)	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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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

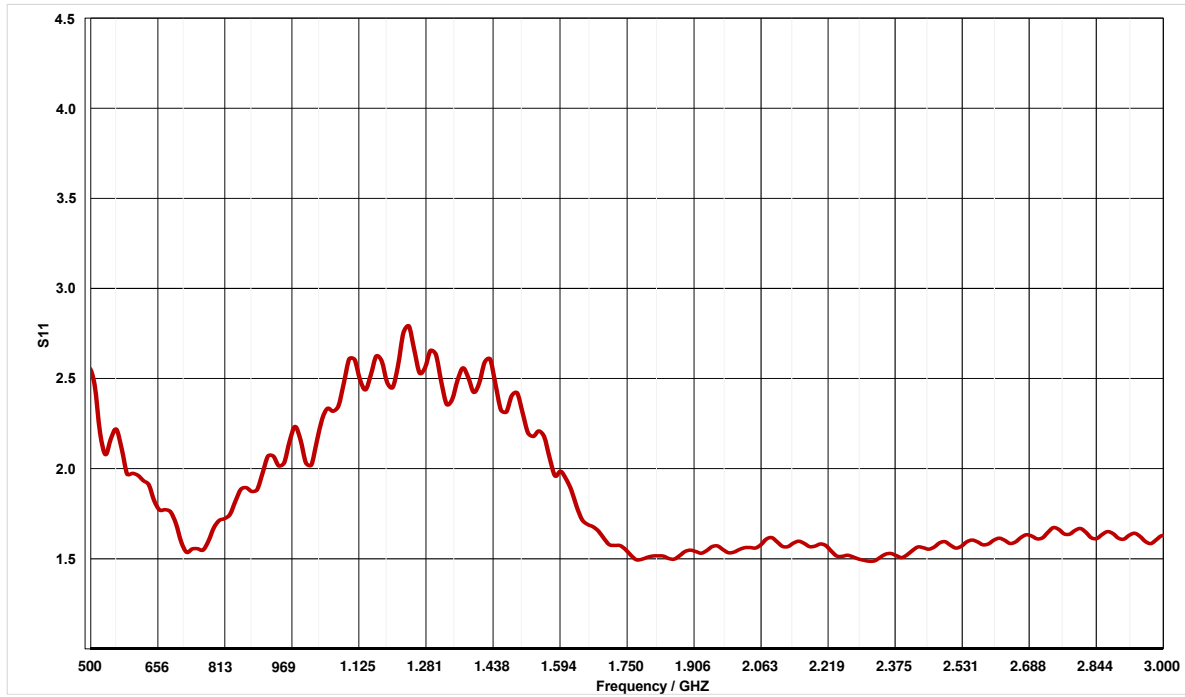
dBi: Referenced to an isotropic radiator

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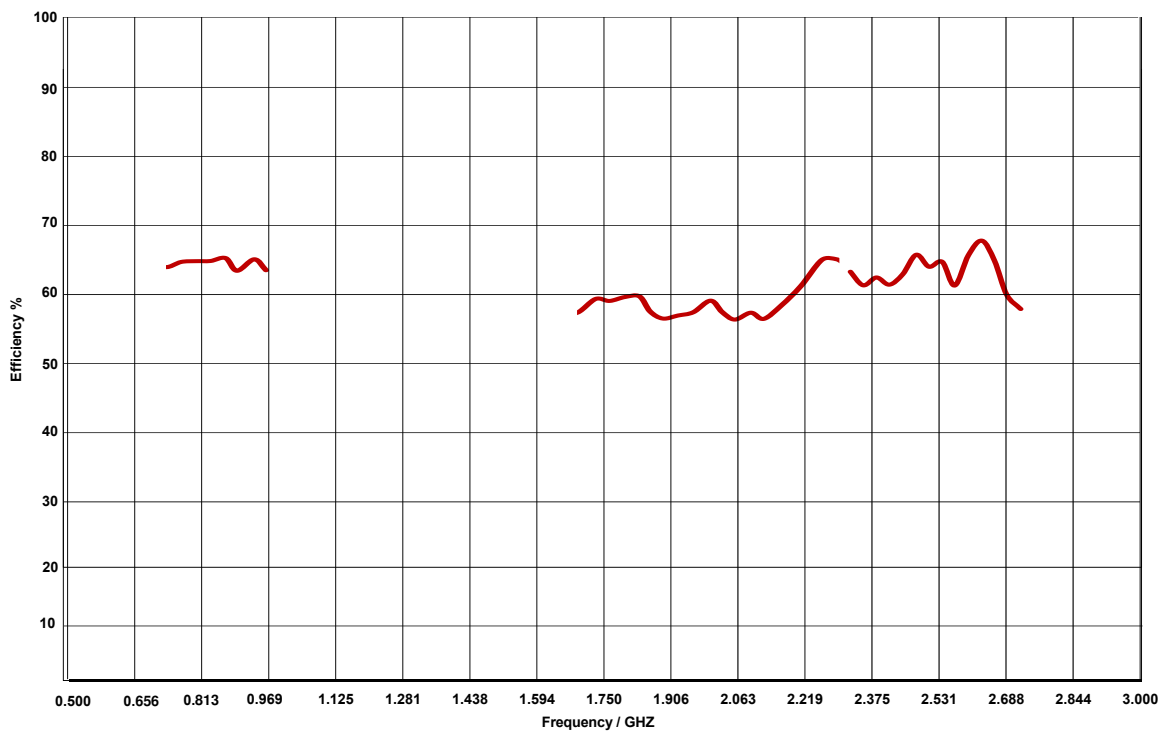
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Typical VSWR Data (LTE)



Radiated Efficiency (LTE)



CAD Data

