

Product: REM SA GNSS / LTE

Product Order Code:

BM-02 RANGE

Low Profile Self Adhesive Mounted Antenna

GNSS, 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	79mm x 74mm x 15.3mm (H) (Including self adhesive pad)	
Weight	74g (Excluding cables and connectors)	
Construction Materials	PC/ABS UL94 V0 / UV Stable	
Mounting Arrangement	3M Adhesive Pad Mounting on any non metallic surface (glass, plastic etc.)	
Temperature Range	-40 to +85 Degree C	
Protection Class	IP67 (IEC 60529)	
Cellular LTE / 2G / 3G		
Frequency Range	LTE 700 + GSM 900 GSM 1800 UMTS WLAN + LTE (High)	698 - 960 MHz 1710 - 1880 MHz 1920 - 2170 MHz 2300 - 2700 MHz
Impedance	50 Ohm	
Polarisation	Linear	
Peak Gain	LTE 700 + GSM 900 GSM 1800 UMTS WLAN + LTE (High)	@ 790-960 MHz 3.8dBi @ 1710-1880 MHz 2.14dBi @ 1920-2170 MHz 2.14dBi @ 2300-2700 MHz 2.14dBi
Radiation Pattern	Omni-Directional	
Max Power @ 30 Celsius	LTE 700 + GSM 900 GSM 1800 UMTS WLAN + LTE (High)	25 Watts @ 790-960 MHz 25 Watts @ 1710-1880 MHz 25 Watts @ 1920-2170 MHz 25 Watts @ 2300-2700 MHz
Return loss (VSWR)	<2:1 (All Featured 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 x 2mm ABS / 1000mm LL100 Cable / SMA Male connector	

dBd Referenced to an isotropic radiator

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Technical Data (Continued)

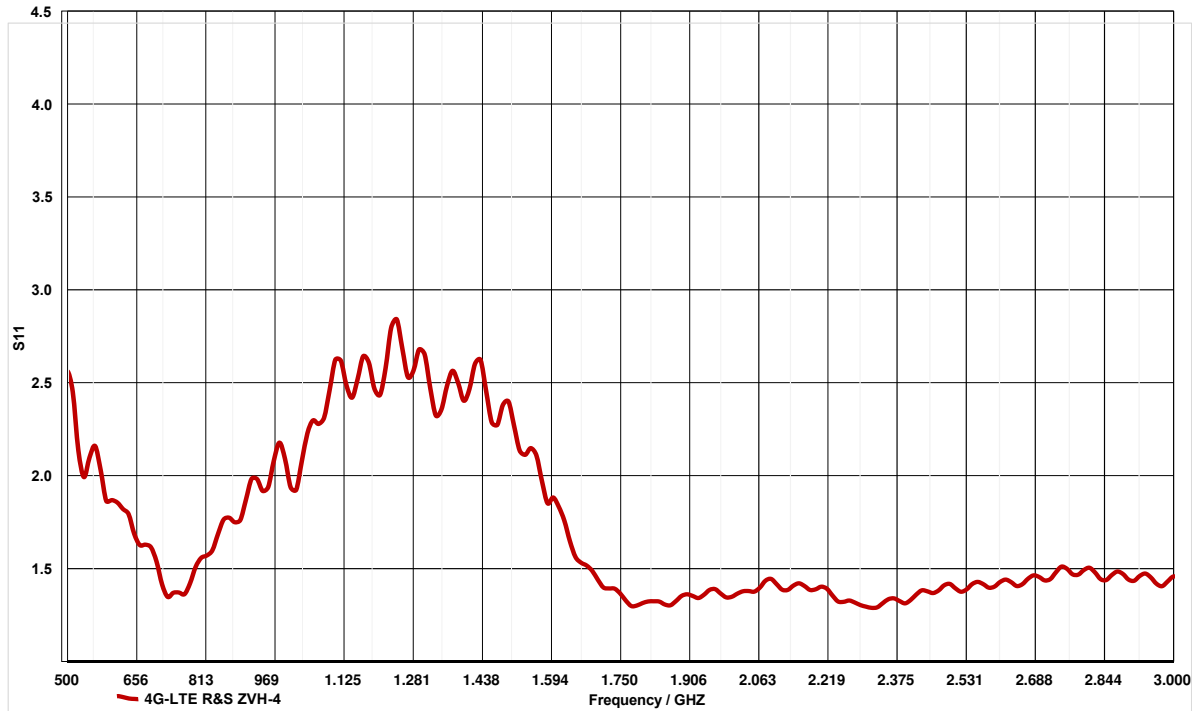
GNSS (GPS / GALILEO / QZSS & GLONASS)		
Frequency Range	GPS, GALILEO, QZSS GLONASS	1575.42 MHz Centre Frequency (+/- 1.024MHz) 1602 MHz Centre Frequency (+/-4MHz)
Impedance		50 Ohm
Polarisation		RHCP
Radiation Pattern		Hemispherical
Return loss (VSWR)		<1.3 1 (@ 1575.42MHz & 1602MHz)
Gain		28dB @ 3v / 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 x 2mm ABS / 1000mm LL100 Cable / SMA Male connector

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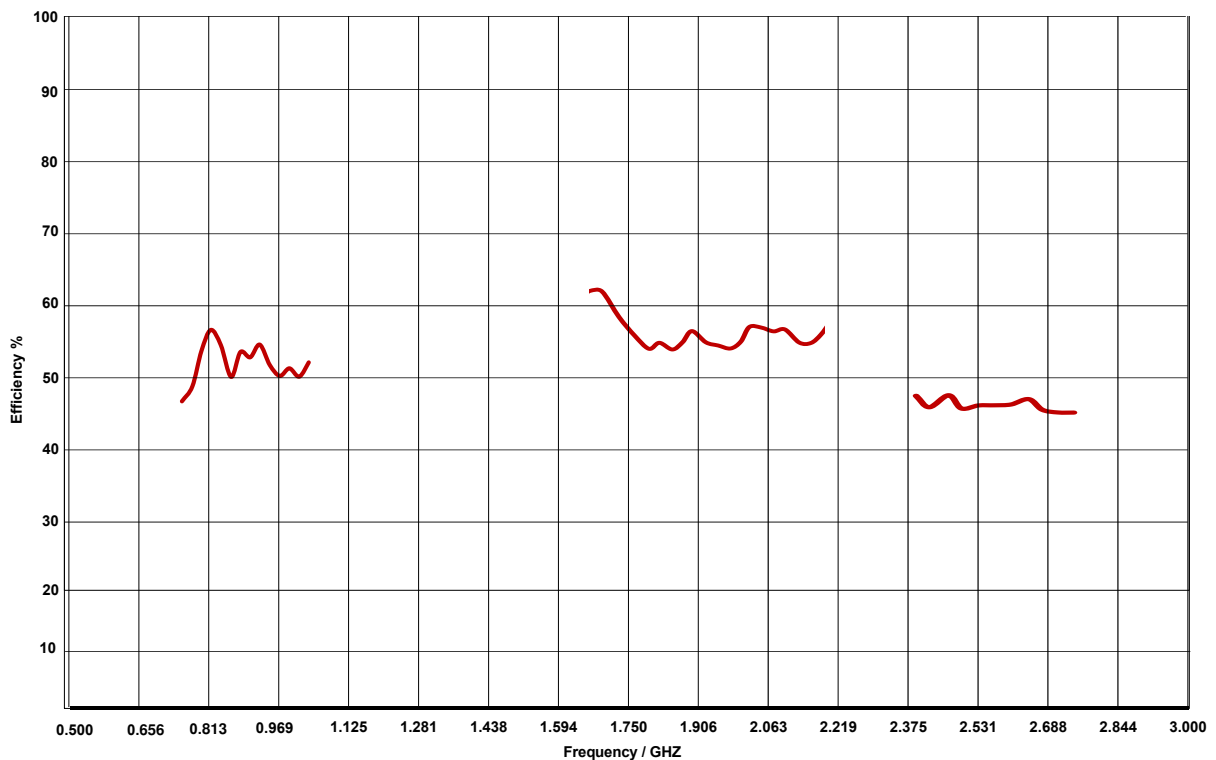
Product Order Code:

Typical VSWR Data

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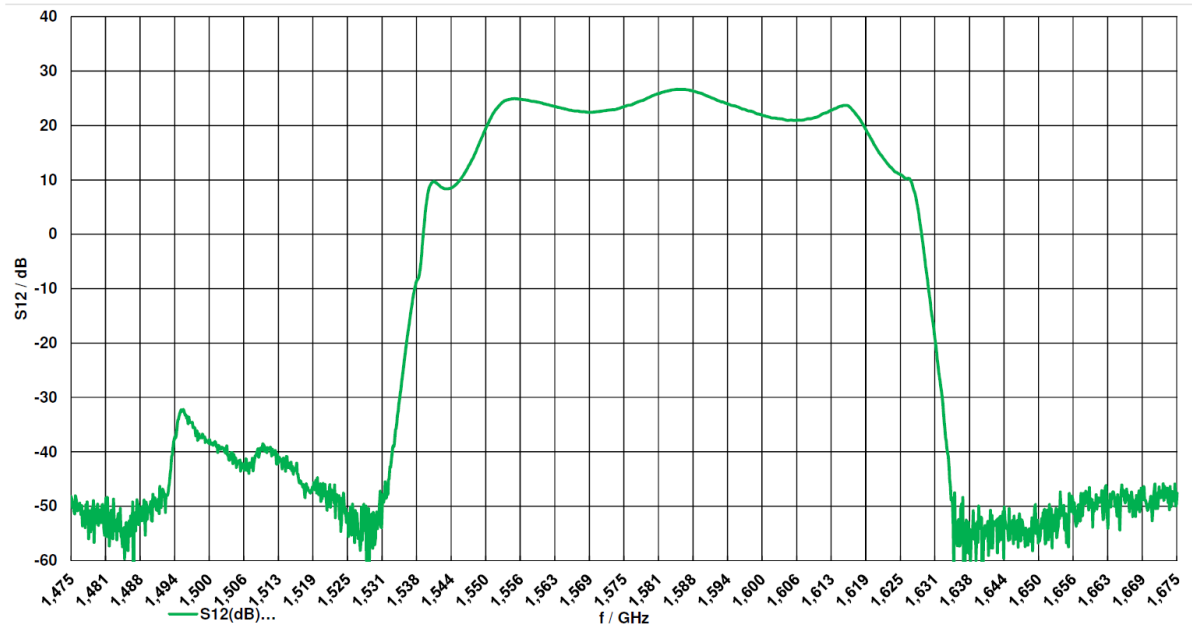
Radiated Efficiency



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Typical GNSS LNA Gain



CAD Data

