

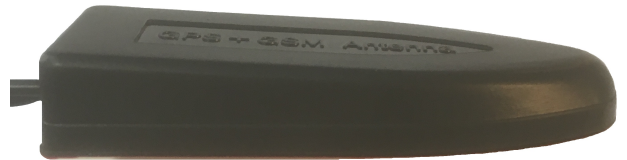
Product: FLECHA GPS / LTE

Product Order Code:
BM-02 RANGE

Low Profile Self Adhesive Mounted Antenna

GPS, 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	96mm (L) x 16mm (H) Max. x 36mm (W) Max.	
Weight	59g (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	IP55	
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; 0dBi @ 1920-2170 MHz; -0.6dBi @ 2300-2700 MHz; -1.7dBi
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)	<2.5:1 (All Bands)	
Radiator Type	Dipole	
Cable types Available	LL100 50 Ohm Low Loss or RG174	
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	

dB: Referenced to an isotropic radiator

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Technical Data (Continued)

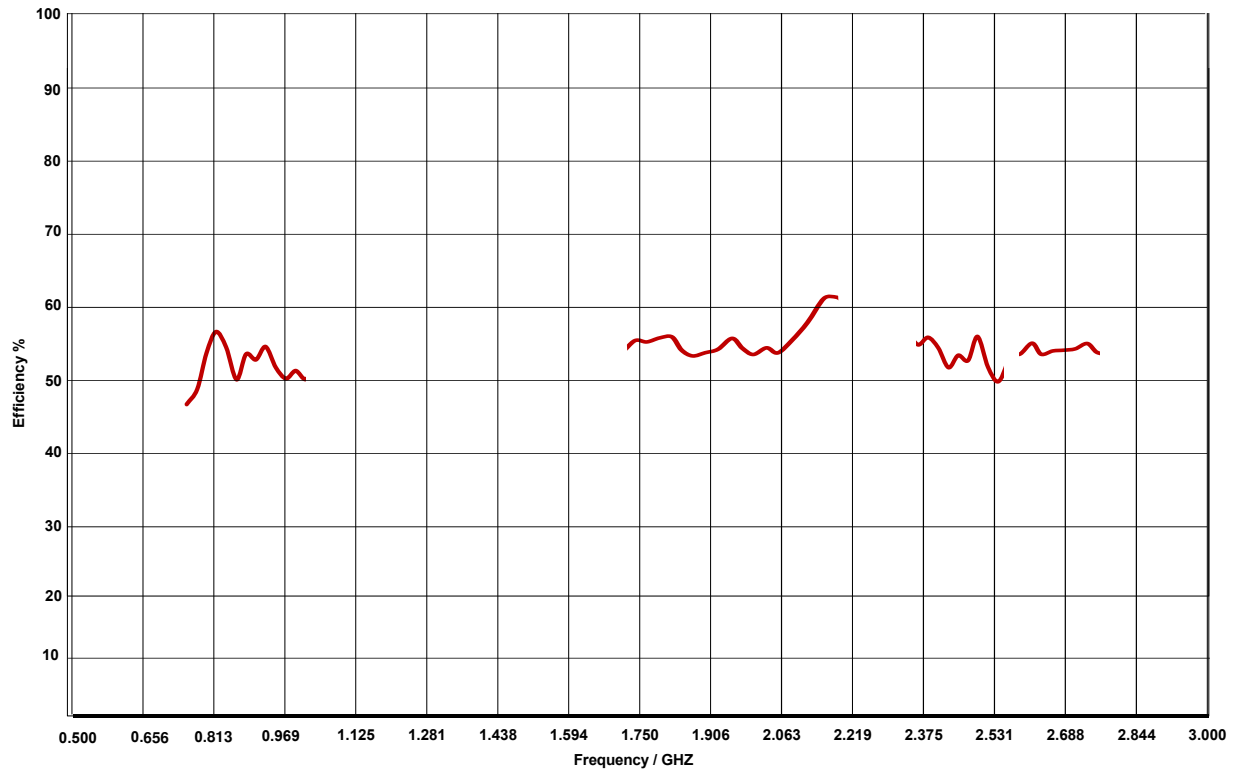
GPS / GALILEO / QZSS

Frequency Range	GPS, GALILEO, QZSS:	1575.42 MHz Centre Frequency (+/- 1.024MHz)
Impedance		50 Ohm
Polarisation		RHCP
Radiation Pattern		Hemispherical
Return loss (VSWR)		<1.3:1 (@ 1575.42MHz)
Gain		28dB @ 3v / 30dB @ 5v
Operational Voltage		2.2v to 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
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

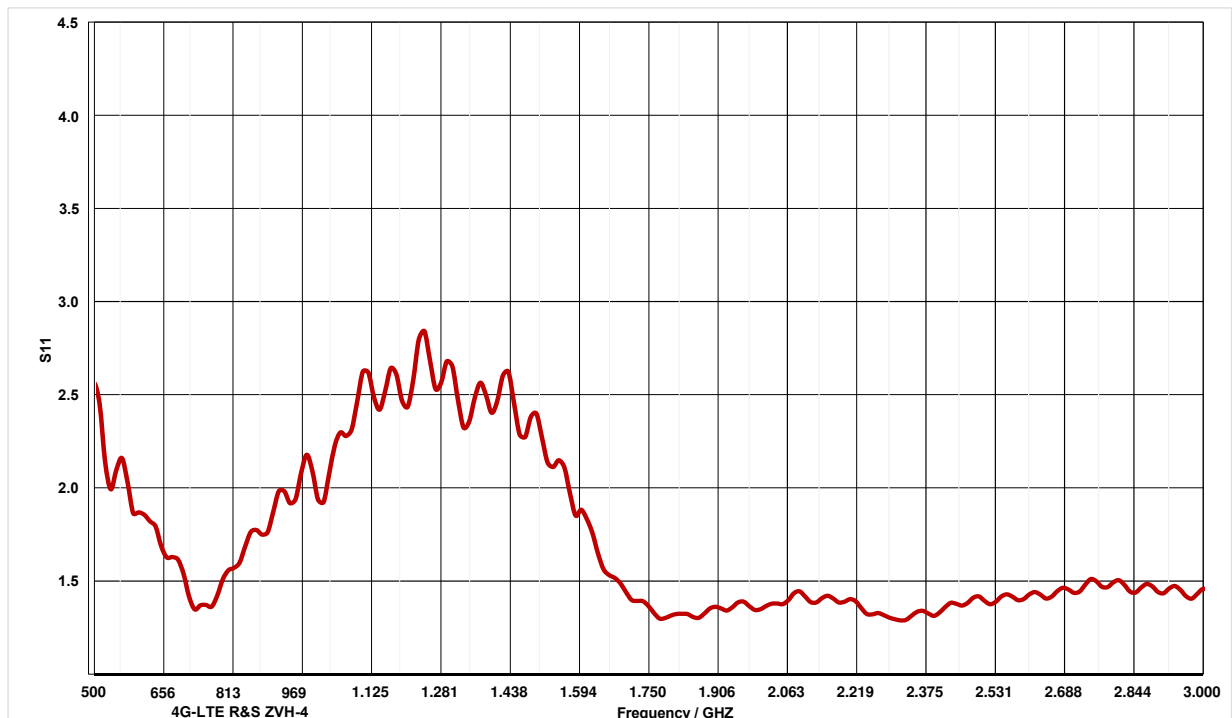
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Radiated Efficiency (LTE)



VSWR Data (LTE)



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CAD Data

