Magnetic MiMo Cellular Antenna

LP[G]AMM-BC3G-26

Magnetic MiMo Cellular Antenna

- Magnetic mount
- 2 x 2 MiMo Cellular/LTE
- Cost effective solution for M2M and IOT applications
- Optional GPS/GNSS Element
- 4G/5G Antenna Coverage

The LP[G]AMM-BC3G-26 range has been designed to provide MiMo Cellular / LTE antenna function for IOT and M2M applications. The compact, robust low-profile housing is weatherproof and contains two antenna elements with effective isolation and correlation covering all current global cellular and LTE bands in freq. range 698-960/1710-3800MHz.

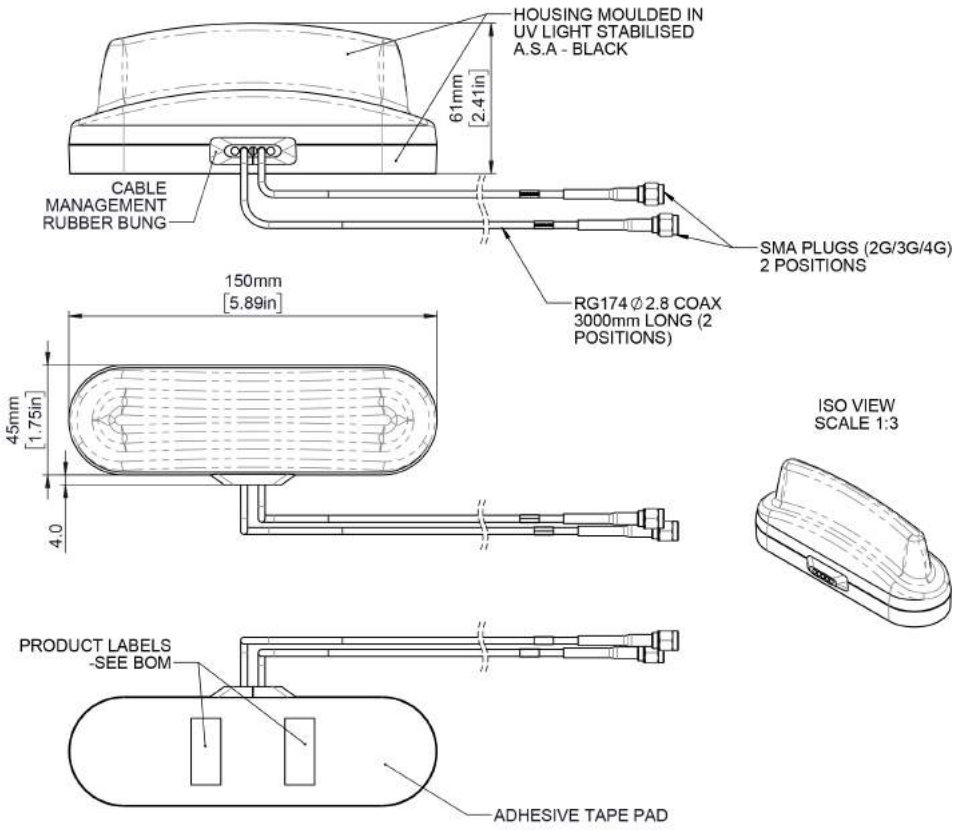
The LG version includes an active 26dB gain GPS/GNSS/Galileo/Beidou antenna for applications which require position or timing function.

The antenna is designed to be mounted magnetically but can be fitted on a non-conductive panel if required* and offers easy, quick, secure and weatherproof installation. Supplied with integrated RG174 cables and SMA plug connectors, the antenna will offer plug and play connectivity with many different terminals.

* There will be no magnetic retention.

Technical Drawing

LPAMM-BC3G-26-3SP Shown



Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

Magnetic MiMo Cellular Antenna

LP[G]AMM-BC3G-26

PANORAMA ANTENNAS

Product Data

Part No.			
		LPAMM-BC3G-26-3SP	LGAMM-BC3G-26-3SP
Electrical Data			
Frequency Range (MHz)	Elements 1 & 2	698-960 / 1710-3800	
	Element 3	-	1562-1612MHz
Peak Gain: Isotropic ǂ	Element 1 & 2: 698-960MHz	1.5dBi	
	Elements 1 & 2: 1710-2170MHz	4.5dBi	
	Elements 1 & 2: 2500-3800MHz	5dBi	
Pattern		Omni-directional	
Nominal Impedance		50Ω	
Max input power (W)		20	
GPS/GNSS Data - Element 3			
Frequency Range (MHz)		-	1562-1612MHz
LNA Gain (dB)		-	26
Polarisation		-	Right Hand Circular
Operating Voltage		-	3-5VDC (Fed via Coax)
Current		-	Typical <20mA
Mechanical Data			
Dimensions (mm)	Height	61 (2.4")	
	Length	150 (5.90")	
	Width	45 (1.77")	
Operating Temp (°C)		-30° / +70°C (-22° / 158°F)	
Material		UV Stable ASA Plastic	
Colour		Black	
Typical Weight (g)		360	
Mounting Data			
Fixing		Magnetic Mounting	
Recommended Max Vehicle Speed		80Mph / 130Kmph	
Cable Data		LPAMM-BC3G-26-3SP	LGAMM-BC3G-26-3SP
Elements 1 & 2: Cell / LTE	Cable Type	RG174	
	Diameter (mm)	2.8 (0.1")	
	Length (m)	3 (9.8')	
	Termination	2x SMA Plugs	3x SMA Plugs
Element 3: GPS/GNSS	Cable Type	-	RG174
	Diameter (mm)	-	2.8 (0.1")
	Length (m)		3 (9.8')
	Termination	-	SMA Plug

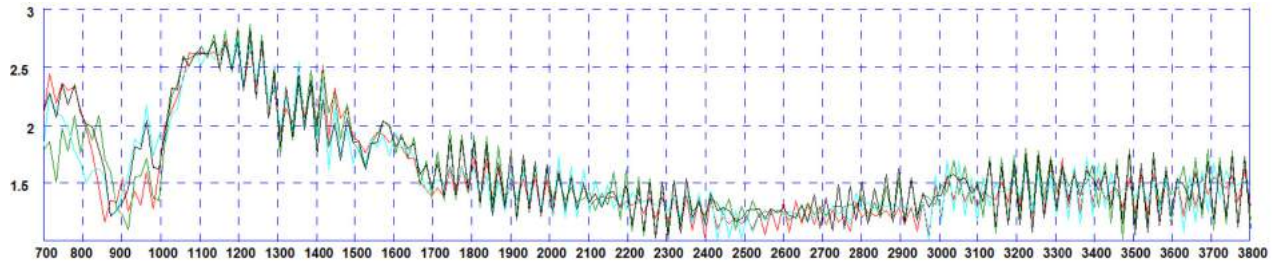
ǂ Peak gain simulated off a groundplane and does not include cable attenuation

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

22-06-21

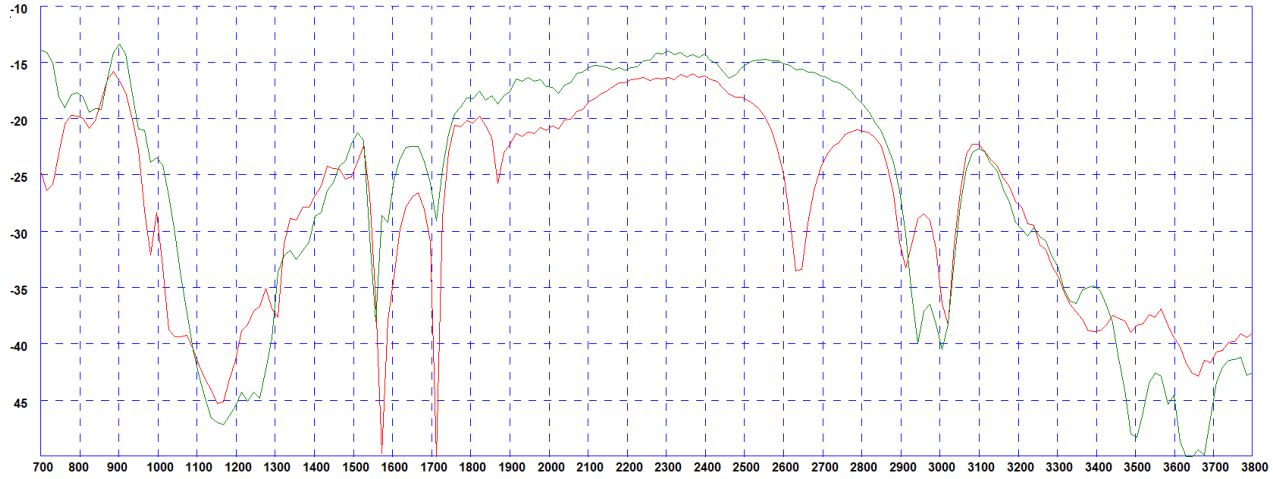
Electrical Data - Cell

Typical VSWR - Elements 1&2*



* VSWR measured with 3m (10') of RG174 cable Green and Red Plots = Elements 1&2 in free space Black and Blue plots = Elements 1&2 on a 400x400mm ground plane

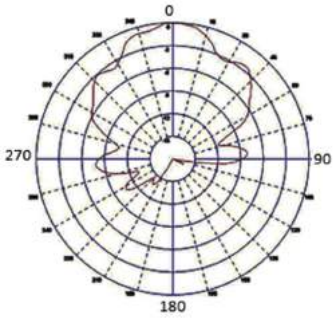
Typical Isolation - Elements 1&2*



*Isolation measured with 3m (10') of RG174 cable Red Plot = mounted on a 400x 400mm (1' 4" x 1'4") ground plane Green Plot = free space

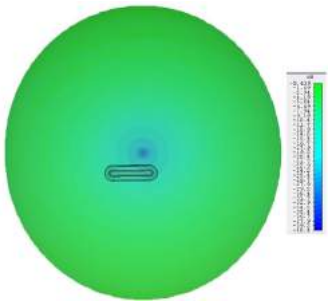
Typical 3D Radiation Patterns - Cell / LTE Elements 1&2

Element 3: Typical E Plane Pattern (1602MHz)

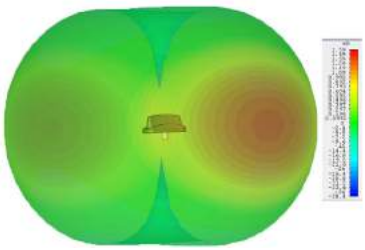


3D Gain Plot Side (700MHz)

3D Gain Plot Top (700MHz)



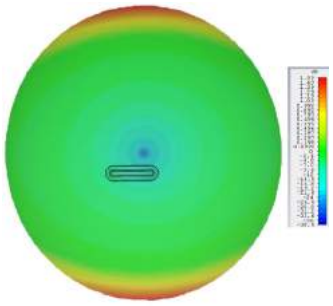
3D Gain Plot Side (800MHz)



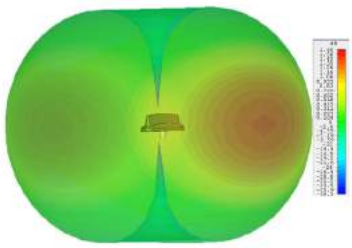
Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

3D Patterns - Cell

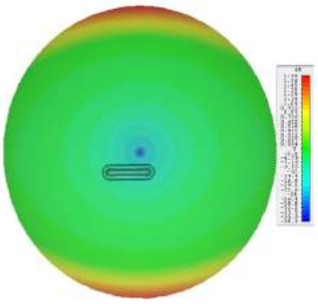
3D Gain Plot Top (800MHz)



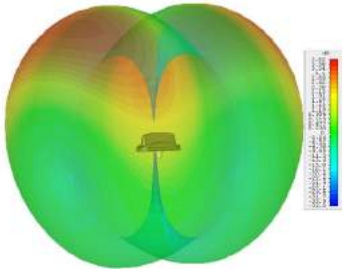
3D Gain Plot Side (900MHz)



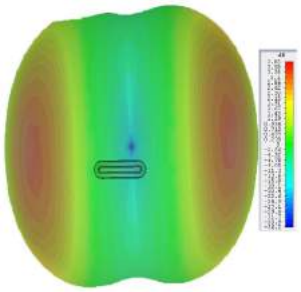
3D Gain Plot Top (900MHz)



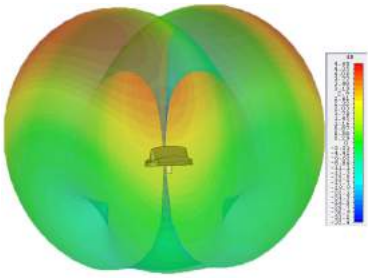
3D Gain Plot Side (1800MHz)



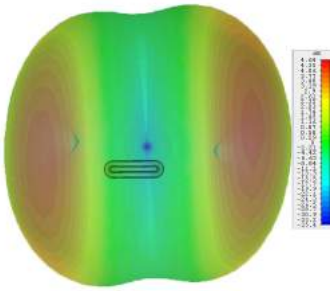
3D Gain Plot Top (1800MHz)



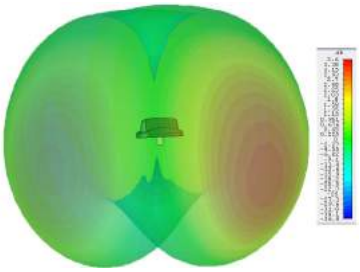
3D Gain Plot Side (2100MHz)



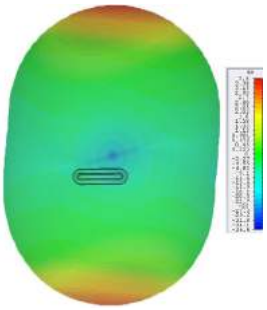
3D Gain Plot Top (2100MHz)



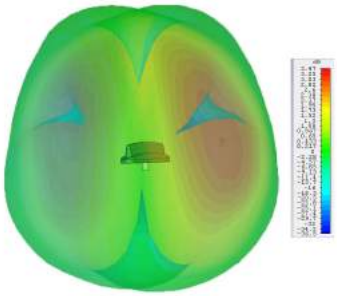
3D Gain Plot Side (2600MHz)



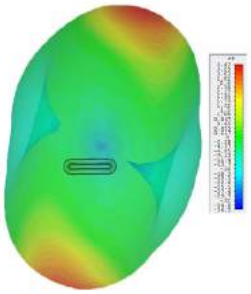
3D Gain Plot Top (2600MHz)



3D Gain Plot Side (3600MHz)



3D Gain Plot Top (3600MHz)



*3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with both elements fed together.

ǂ Element 1&2 Patterns simulated in CST Microwave Studio in free space excluding cable loss. Element 3 pattern measured in free space.

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com