PANORAMA PANTENNAS

LP[G]AMM-BC3G-26





Magnetic mount

2 x 2 MiMo Cellular/LTE

Cost effective solution for M2M and IOT applications

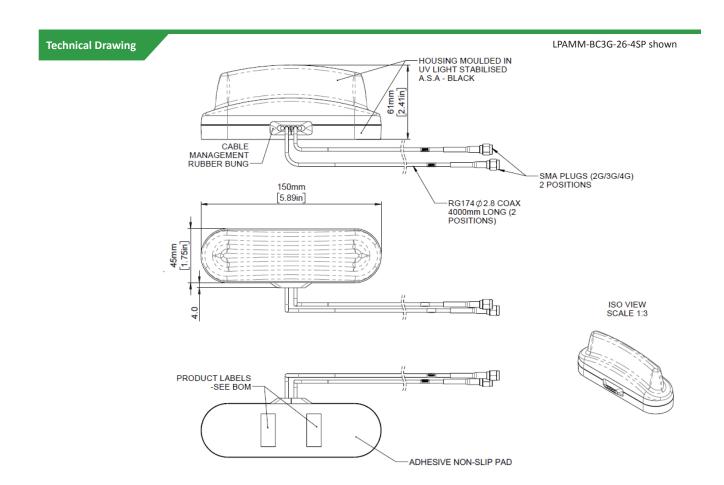
Optional GPS/GNSS Element

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





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Product Data

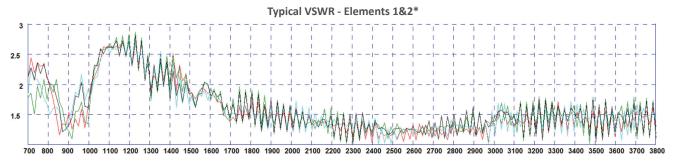
Part No.				
rait No.		LPAMM-BC3G-26-3SP	LGAMM-BC3G-26-3SP	
Electrical Data				
Frequency Range (MHz)	Elements 1 & 2	698-960 / 1710-3800		
	Element 3	- 1562-1612MHz		
Peak Gain: Isotropic +	Element 1 & 2: 698-960MHz	1.5dBi		
	Elements 1 & 2: 1710-2170MHz	4.5dBi		
	Elements 1 & 2: 2500-3800MHz	5dBi		
Pattern		Omni-directional		
Nominal Impedance		50Ω		
Max input power (W)		20		
GPS/GNSS Data - Ele	ement 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				
	Cable Type	RG174		
Elements 1 & 2: Cell	Diameter (mm)	2.8 (0.1")		
	Length (m)	3 (9.8′)		
	Termination	2x SMA Plugs		

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

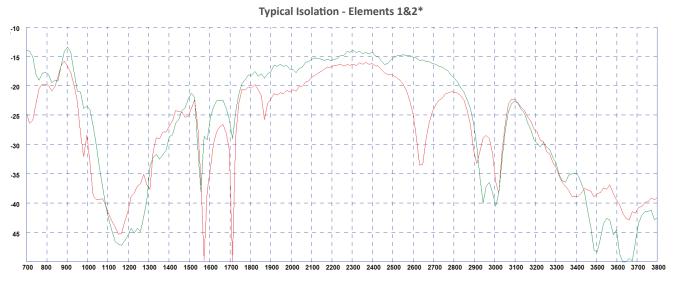


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Electrical Data

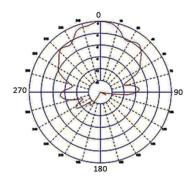


^{*} VSWR measured with 3m (10') of RG174 cable Green and Red Plots = Elements 1&2 in free space Black and Blue plots = Elements 1&2 on a 400x400mm ground plane

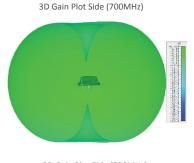


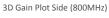
*Isolation measured with 3m (10') of RG174 cable Red Plot = mounted on a 400x 400mm (1' 4" x 1'4") ground plane Green Plot = free space

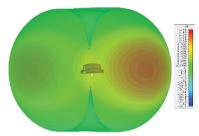
Element 3: Typical E Plane Pattern (1602MHz)



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







3D Gain Plot Top (700MHz)



Panorama Antennas Ltd



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Radiation Patterns 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)

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

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