LP[G]AMM-BC3G-26

### PANORAMA 💬 ANTENNAS



#### Magnetic MiMo Cellular Antenna

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 nonconductive 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

		LPAMM-BC3G-26-3SP LGAMM-BC	3G-26-3SP	
lectrical Data				
Frequency Range (MHz)	Elements 1 & 2	698-960 / 1710-3800		
	Element 3	- 1562-16	12MHz	
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	Omni-directional	
Nominal Impedance		50Ω	50Ω	
Max input power (W)		20		
SPS/GNSS Data - Eler	ment 3			
Frequency Range (MHz)		- 1562-16	12MHz	
LNA Gain (dB)		- 20	6	
olarisation		- Right Han	d Circular	
Dperating Voltage		- 3-5VDC (Fe	d via Coax)	
Current		- Typical	<20mA	
/lechanical 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		
ypical Weight (g)		360		
Nounting Data				
Fixing		Magnetic Mounting		
Recommended Max Vehicle Speed		80Mph / 130Kmph		
able Data				
Elements 1 & 2: Cell / L1	Cable Type	RG174		
	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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### LP[G]AMM-BC3G-26



\* 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)





3D Gain Plot Side (700MHz)

3D Gain Plot Side (800MHz)





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\*3D 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.

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