

# LP[G]M4-24-58

Ultra Low Profile MiMo WiFi Antenna

PANORAMA ANTENNAS

26/10/2017 v.1

## Ultra Low Profile MiMo WiFi Antenna



Ultra Low Profile

4 x 4 MiMo Dual Band WiFi

Cost effective solution for M2M and IOT applications

Optional GPS/GNSS Element

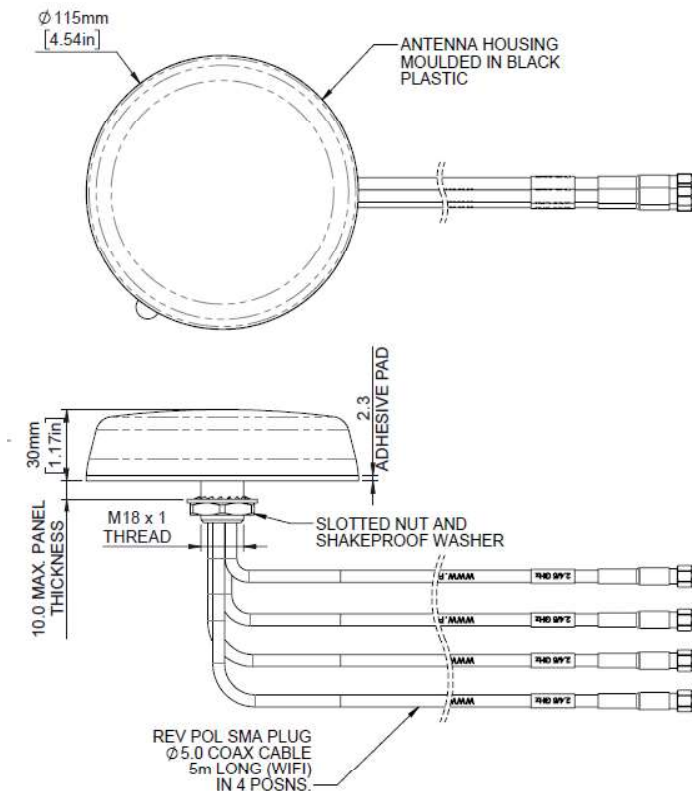
The LP[G]M4 range has been designed to provide MiMo dual band WiFi coverage in an ultra low profile package. The compact, robust low-profile housing is weatherproof and contains four antenna elements with effective isolation and correlation covering 2.4-2.5/4.9-6GHz.

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 panel mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated CS32 cables and Reverse Polarity SMA plug connectors, the antenna will offer plug and play connectivity with many different access points.

### Technical Drawing

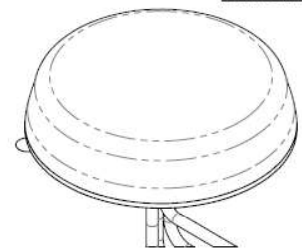
LPM4-24-58-5RSP shown



OPERATING FREQUENCIES:

WiFi FEED: 2400/4900-6000 MHz  
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ISO VIEW  
SCALE 1:2



Part No.

LPM4-24-58-SRPSP

LGM4-24-58-SRPSP

Electrical Data

Frequency Range	Elements 1 -4	2.4/5.0 GHz
	Element 5	- 1562-1612MHz
Peak Gain: Isotropic †	Element 1 -4: 2.4-2.5GHz	6dBi
	Elements 1 -4: 4.9- 6.0GHz	9dBi
Pattern	Omni-directional	
Nominal Impedance	50Ω	
Max input power (W)	10	

GPS/GNSS Data - Element 5

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

Diameter	115 (4.52")
	Height
Operating Temp (°C)	-30° / +70°C (-22° / 158°F)
Material	UV Stable ASA Plastic
Colour	Black
Typical Weight (g)	225

Mounting Data

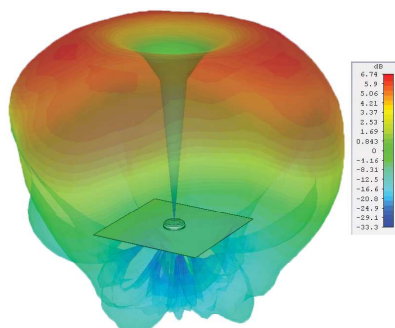
Fixing	Panel Mount - 18mm (3/4")
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Cable Data

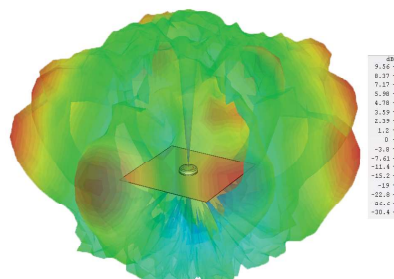
Elements 1 - 4: WiFi	Cable Type	CS32
	Diameter (mm)	5 (0.2")
	Length (m)	5 ( 17')
	Termination	4x Rev Pol SMA Plugs
Element 5: GPS/GNSS	Cable Type	- RG174
	Diameter (mm)	- 2.8 (0.1")
	Length (m)	5( 17')
	Termination	- SMA Plug

† Peak gain simulated on a 600x600mm (2'x2') groundplane with all elements fed and does not include cable attenuation

Typical 3D Pattern (2450MHz)



Typical 3D Pattern (5400MHz)



Pattern Data



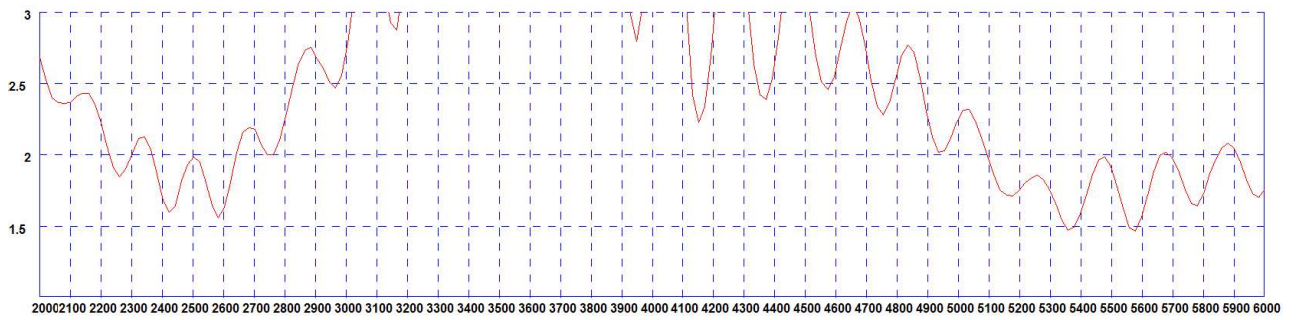
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Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

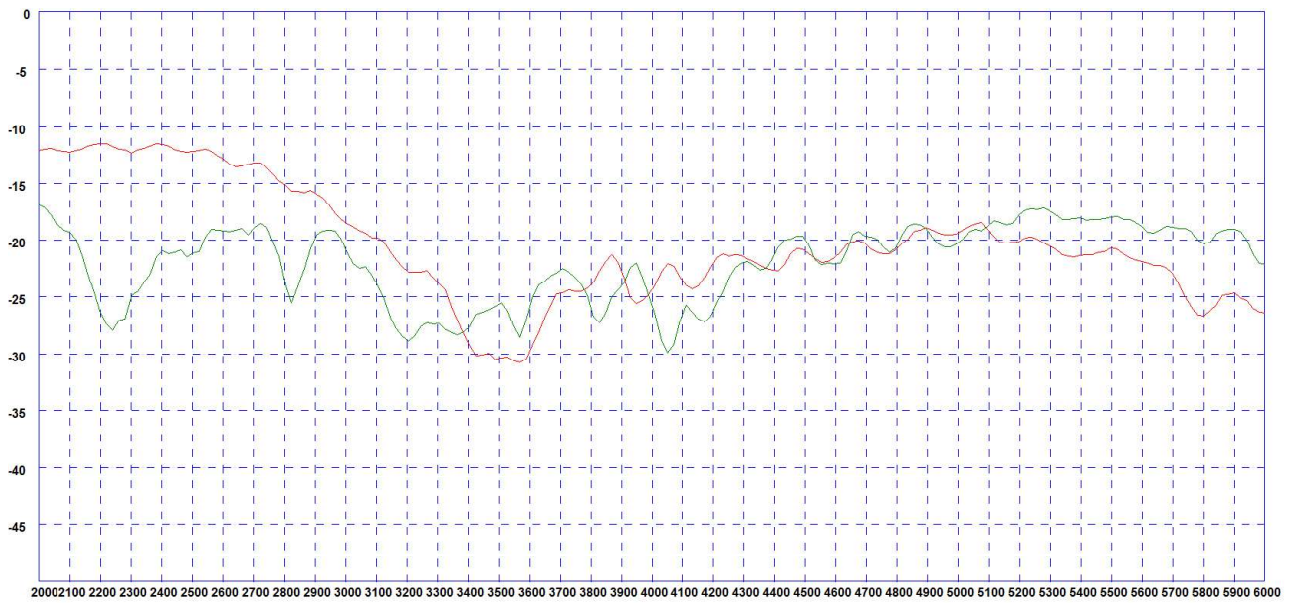
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Typical VSWR - Elements 1-4\*



\* VSWR measured with 0.5m (1.5') of CS32 cable

Typical Isolation - Elements 1-4\*



\*Isolation measured with 0.5m (1.5') of CS32 cable Red Plot = Adjacent Elements Green Plot =Opposite Elements