

LPM2-24-58 / LGM2-24-58 / LPM3-24-58

07/07/2015 v.2

Dual Band MiMo WLAN Low Profile Antenna

Rugged Low Profile Design

Ground Plane Independent

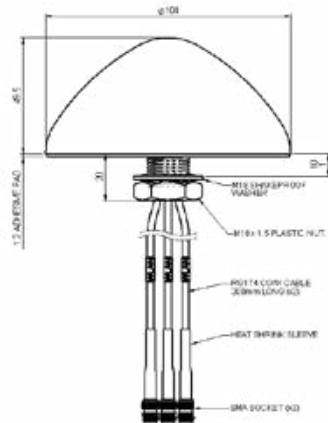
Optional GPS Version (2 x 2 MiMo Only)

With up to three omni-directional dual band WIFI elements in a single housing the LPM /LGM series is an ideal solution for WIFI modems and routers requiring MiMo connectivity.

Each element is isolated from the others with a separate feed and covers both the 2.4GHz and 4.9-6GHz bands. Supplied with short fly leads the LPM/LGM series is easy to install and can be configured with various lengths of low loss coaxial cable.



Technical Drawing

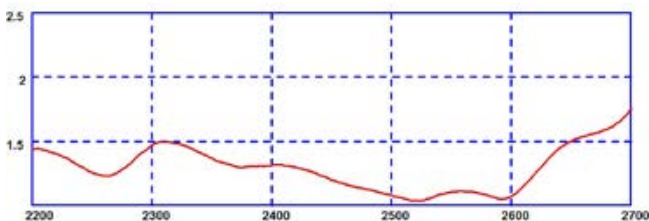


FREQUENCIES:
2.3-2.7GHz
4.9-6.0GHz

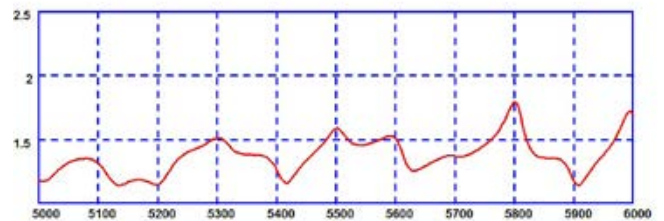
(LPM3-24-58 shown)

Product Data

Typical VSWR WIFI elements 2.4GHz*

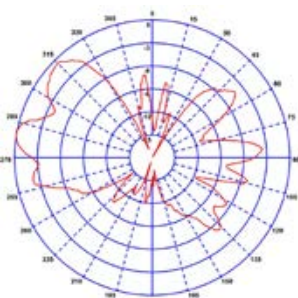


Typical VSWR WIFI elements 5GHz*

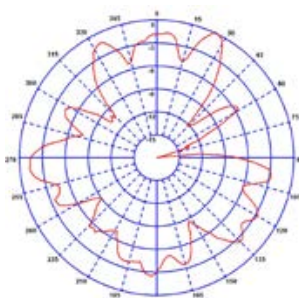


*VSWR & patterns measured with 5m of CS32 Cable in free space.

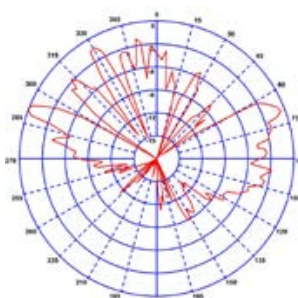
Typical E-Plane (2450MHz)



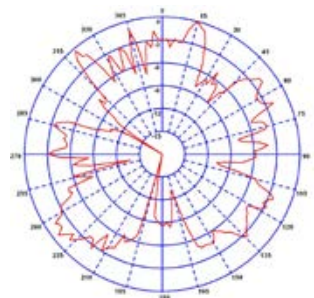
Typical H-Plane (2450MHz)



Typical E-Plane (5850MHz)



Typical H-Plane (5850MHz)



Product Data

Part No.		LPM2-24-58	LGM2-24-58	LPM3-24-58
Electrical Data				
MiMo		2 x 2	2 x 2	3 x 3
Frequency Range (MHz)		2.4 / 4.9-6GHz		
Operational Bands		2.4GHz WIFI / 4.9GHz WIMAX / 5.8GHz WIFI		
Peak Gain: Isotropic (Individual Elements)		2dBi		
Compared to ¼ wave		0dB		
Typical Isolation		>15dB (excluding cable loss)		
Pattern		Omni-directional		
Polarisation		Vertical		
Impedance		50Ω		
Max Input Power (W)		25		
GPS Data				
Frequency Range (MHz)		N/A	1575	N/A
VSWR		N/A	<2.0:1 ± 4MHz	N/A
Gain: LNA		N/A	26dB	N/A
Polarisation		N/A	Right Hand Circular	N/A
Operating Voltage		N/A	3 -5V DC (fed via coax)	N/A
Current		N/A	Typical 15mA	N/A
Mechanical Data				
Dimensions (mm)	Height	50 (1.97")		
	Diameter	102 (4")		
Operating Temp (°C)		-30° / +70°C (-22° / +158°F)		
Material		ABS		
Colour		Black		
Mounting Data				
Fixing		Panel mount		
Hole Size (mm)		18 (3/4")		
Cable Data				
GPS Cable	Type	RG174		
	Diameter	0.11" (2.8mm)		
	Length	1' (0.3m)		
	Termination	FME (female)		
WIFI / WiMAX Cable	Type	RG174		
	Diameter	0.1" (2.8mm)		
	Length	1' (0.3m)		
	Termination	SMA (female)		

We recommend the customer uses CS32 extension cables for WLAN and RG174 for GPS.

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
www.panorama-antennas.com

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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