

# 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

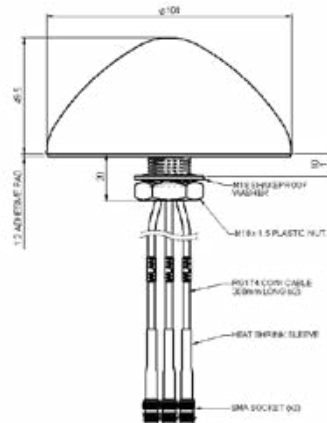
Optional GPS Version (2 x 2 MiMo Only)

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

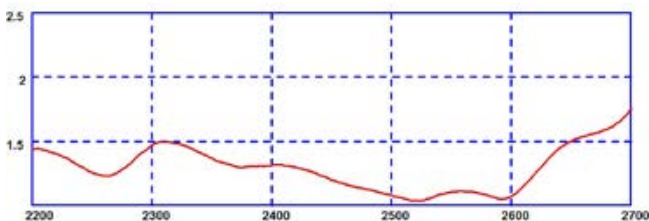


FREQUENCIES:  
2.3-2.7GHz  
4.9-6.0GHz

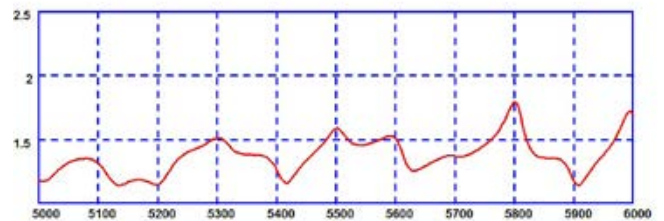
(LPM3-24-58 shown)

### Product Data

Typical VSWR WIFI elements 2.4GHz\*

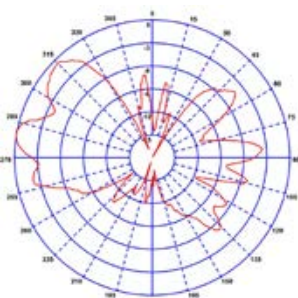


Typical VSWR WIFI elements 5GHz\*

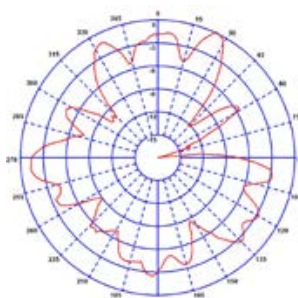


\*VSWR & patterns measured with 5m of CS32 Cable in free space.

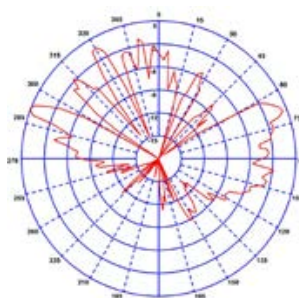
Typical E-Plane (2450MHz)



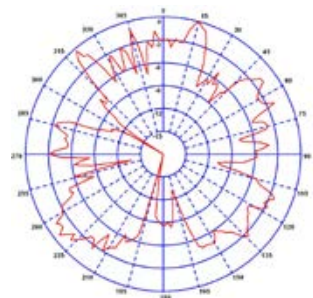
Typical H-Plane (2450MHz)



Typical E-Plane (5850MHz)



Typical H-Plane (5850MHz)



## Product Data

Part No.		LPM2-24-58	LGM2-24-58	LPM3-24-58
<b>Electrical Data</b>				
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		
<b>GPS Data</b>				
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
<b>Mechanical Data</b>				
Dimensions (mm)	Height	50 (1.97")		
	Diameter	102 (4")		
Operating Temp (°C)		-30° / +70°C (-22° / +158°F)		
Material		ABS		
Colour		Black		
<b>Mounting Data</b>				
Fixing		Panel mount		
Hole Size (mm)		18 (3/4")		
<b>Cable Data</b>				
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.

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