MiMo Directional 2.4/5.0GHz Antenna

WMM[X]9G-24-58-NJ

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Supports 2x2, 3x3 or 4x4 MiMo across 2.4/5.0GHz

Up to 4x wideband elements with gain

Suitable for mast and rail mounting

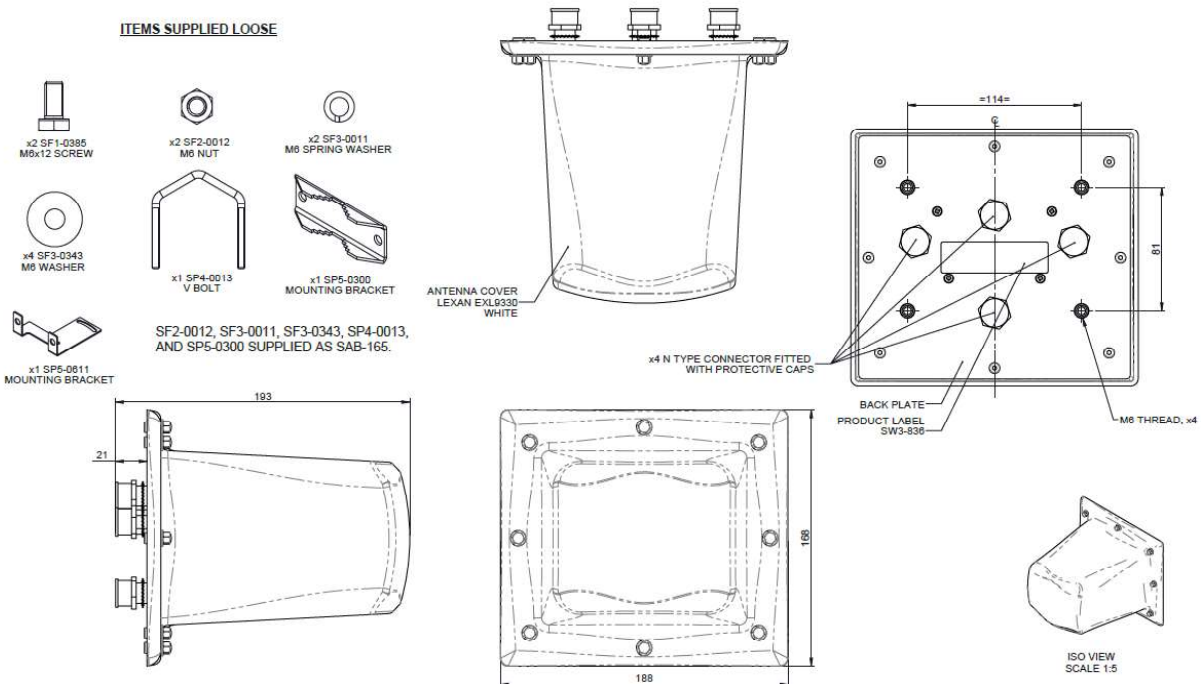
The WMM[X]9G-24-58 is a high directional gain 2x2, 3x3 or 4x4 MiMo antenna for WiFi networks. Incorporating two, three or four separately fed gain element assemblies in a single housing the WMM[X]9G-24-58 is equipped to provide client side MiMo support for 2.4 and 5.0GHz networks.

The weather resistant housing is designed for rail or mast mounting. Supplied with fitted N female bulkhead connections for easy installation the product can be fitted with a range of extension cables.The product range is certifed to both IP66 and IK10 ideal for external or internal use in tough environments.

The WMM[X]9G-24-58 is a cost effective value added product for providing MiMo WiFi coverage to a room, platform or other area.

Technical Drawing

WMM49G-24-58-NJ Shown



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
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Product Data

Part No.		WMM49G-24-58-NJ	WMM39G-24-58-NJ	WMM29G-24-58-NJ
Electrical Data				
Frequency range (GHz)		4x 2.3-2.5 / 4.9-5.0	3x 2.3-2.5 / 4.9-5.0	2x 2.3-2.5 / 4.9-5.0
Operational bands		4x 2.4/5.0GHz	3x 2.4/5.0GHz	2x 2.4/5.0GHz
Radiation pattern			Directional	
Nominal polarisation		2x Horizontal 2x Vertical	1x Horizontal 2x Vertical	1x Horizontal 1x Vertical
Peak gain (excl cable loss)+	2.45 GHz		9dBi	
	5-6 GHz		9dBi	
Typical 3dB beamwidth ° +	2.45 GHz H Plane		65	
	5-6 GHz H Plane		70	
	2.45 GHz E Plane		55	
	5-6GHz E Plane		60	
Efficiency - excluding cable loss (all bands)			> 70%	
Correlation co-efficient (all bands)			< 0.2	
Max input power (W)			20 Watts	
Nominal impedance			50Ω	
Mechanical Data				
Dimensions (mm)	Height		168 (6.6”)	
	Width		188 (7.4”)	
	Depth		193 (7.6”)	
Operating temp (°C)			-40° / +80°C (-40° / 176°F)	
Material			Lexan EXL 9330	
Colour			White	
Ingress protection			IP66	
Vandal protection			IK10	
Weight		1250	1185	1120
Mounting Data				
Fixing			Rail mount / mast mount	
Mounting bracket material			Stainless steel / Aluminium	
Pole diameter (mm)			20-50 / (0.78 - 1.96”)	
Connector Data				
Type		N female x 4	N female x 3	N female x2

+Peakgain and beamwidth data for each element measured individually based on a vertically polarised element

+ Swept peak gain simulated in CST Microwave studio for each element excluding cable loss

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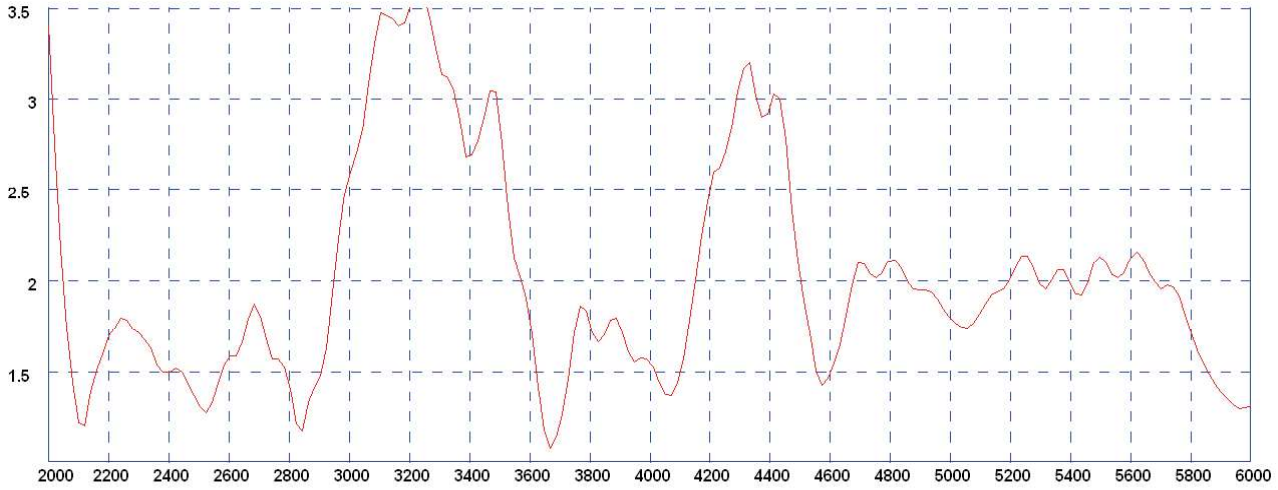
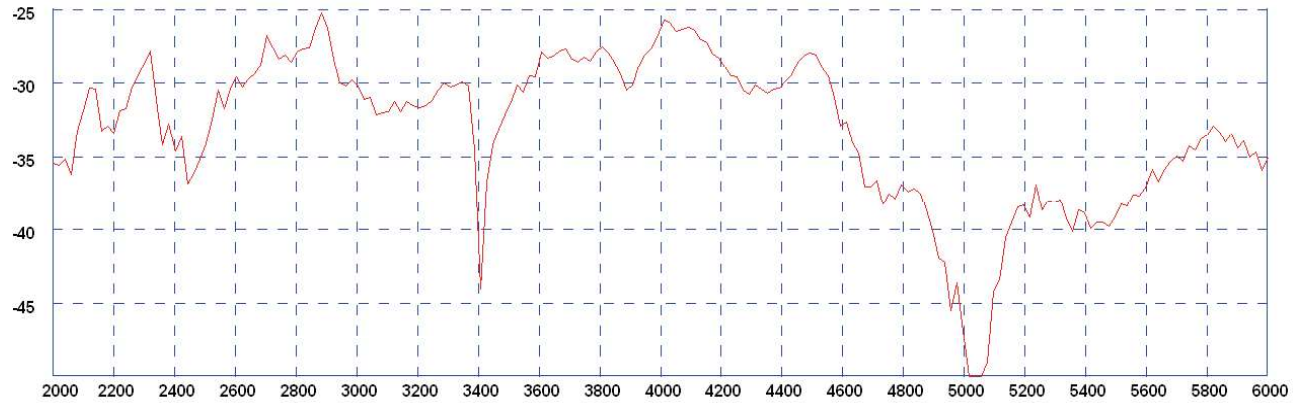
Electrical Data

Typical VSWR*



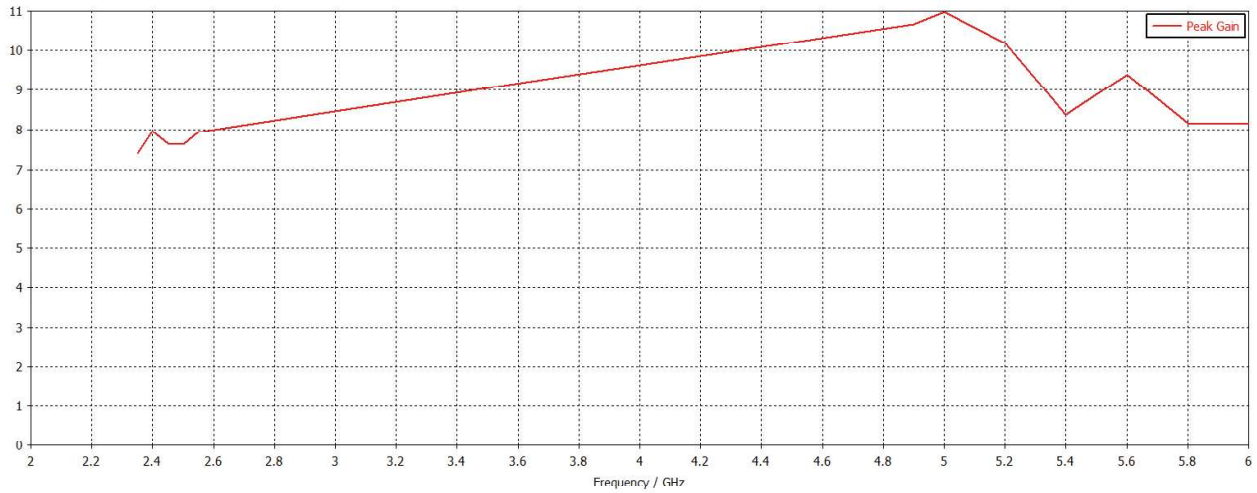
*VSWR of typical element measured in free space without cable

Typical Worst Case Isolation **



**Isolation measured in free space without cable.

Typical Swept Peak Gain ***



*** Swept peak gain simulated in CST Microwave studio for each element excluding cable loss

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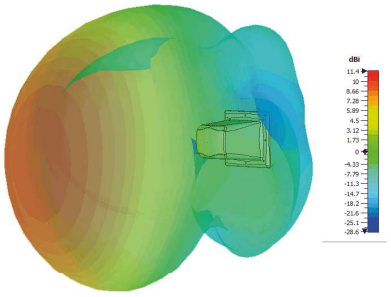
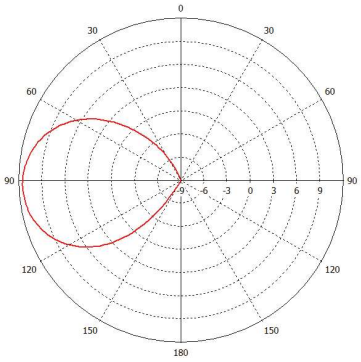
Pattern Data 4x Elements

* Patterns simulated in CST Microwave studio based on 4x Elements fed together

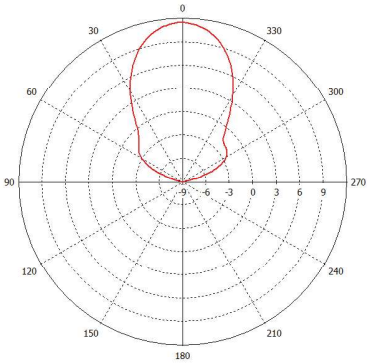
Typical 3D Pattern 2.45GHz**



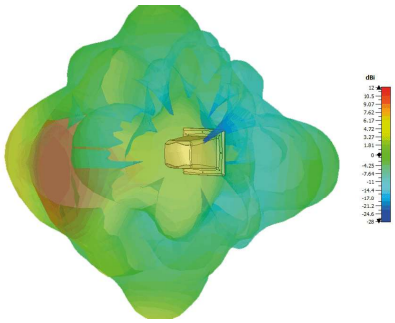
Typical E Plane Pattern 2.45GHz**



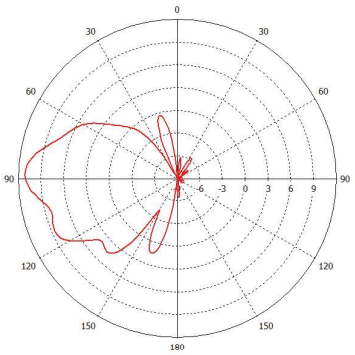
Typical H Plane Pattern 2.45GHz**



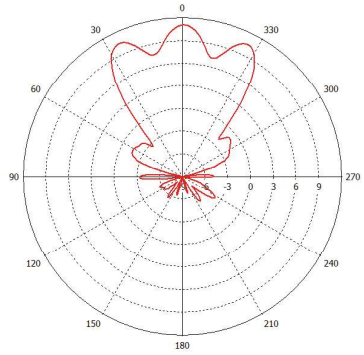
Typical 3D Pattern 5.4GHz**



Typical E Plane Pattern 5.4GHz**



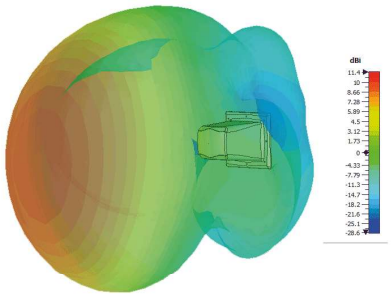
Typical H Plane Pattern 5.4GHz**



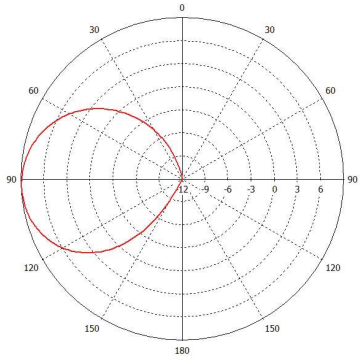
Pattern Data 1x Element

* Patterns simulated in CST Microwave studio based on 1x vertically polarised element fed individually

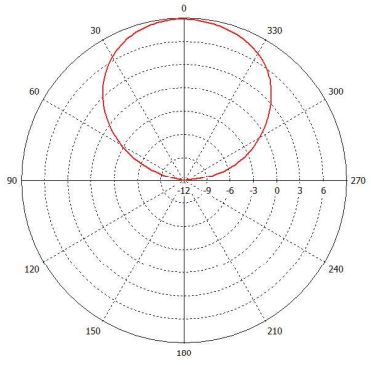
Typical 3D Pattern 2.45GHz**



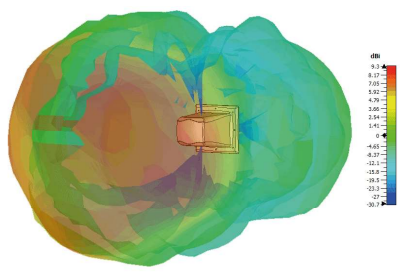
Typical E Plane Pattern 2.45GHz**



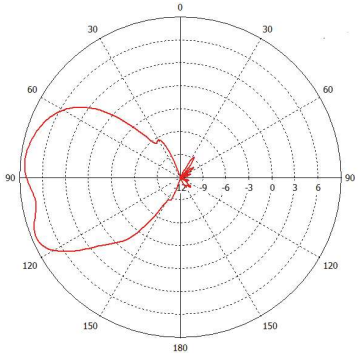
Typical H Plane Pattern 2.45GHz**



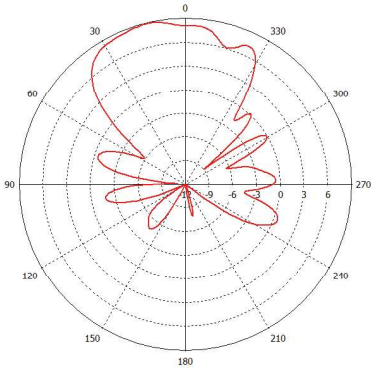
Typical 3D Pattern 5.4GHz**



Typical E Plane Pattern 5.4GHz**



Typical H Plane Pattern 5.4GHz**



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