

# MiMo Directional 3.6/5.0GHz Antenna

WMM[X]9G-36-55-NJ



## WMM[X]9G-36-55-NJ

- Supports 2x2, 3x3 or 4x4 MiMo across 3.4-3.8/5.0GHz
- Up to 4x wideband elements with gain
- Suitable for mast and rail mounting

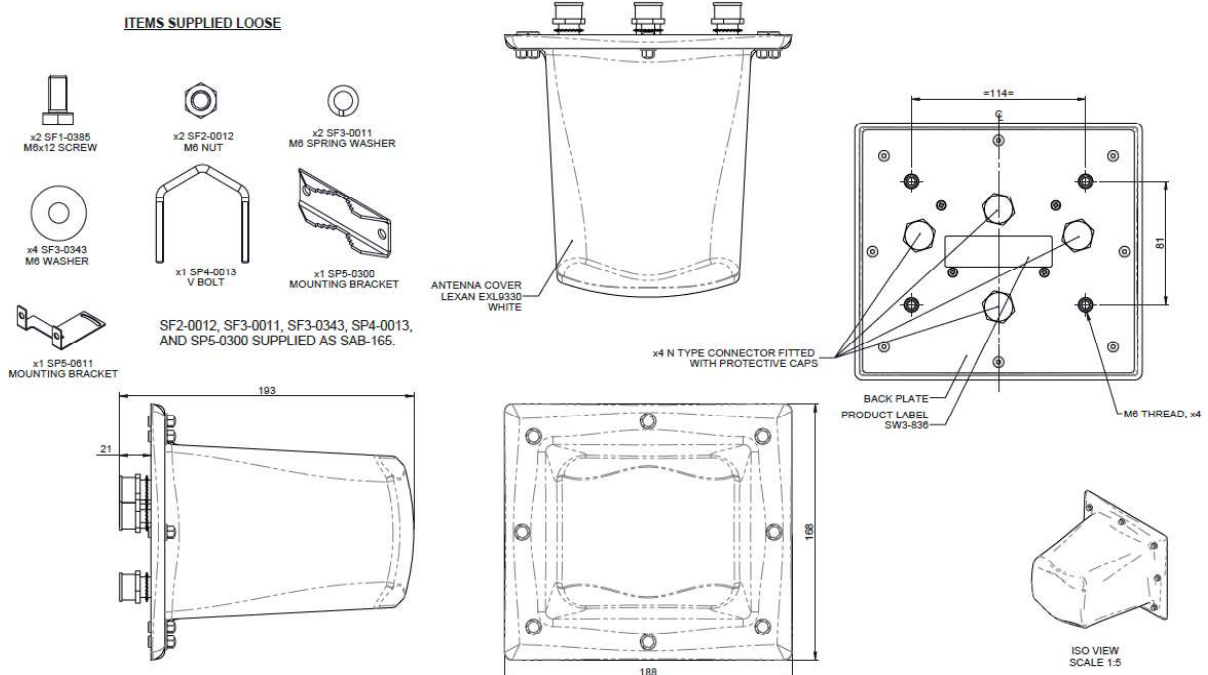
The WMM[X]9G-36-55 is a high directional gain 2x2, 3x3 or 4x4 MiMo antenna for 5G / CBRS / private LTE networks. Incorporating two, three or four separately fed gain element assemblies in a single housing the WMM[X]9G-36-55 is equipped to provide client side MiMo support for 3.6 and 5.0GHz networks.

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 certified to both IP66 and IK10 ideal for external or internal use in tough environments.

The WMM[X]9G-36-55 is a cost effective value added product for providing MiMo 3.6/5.0GHz coverage to a room, platform or other area.

### Technical Drawing

WMM49G-36-55-NJ Shown



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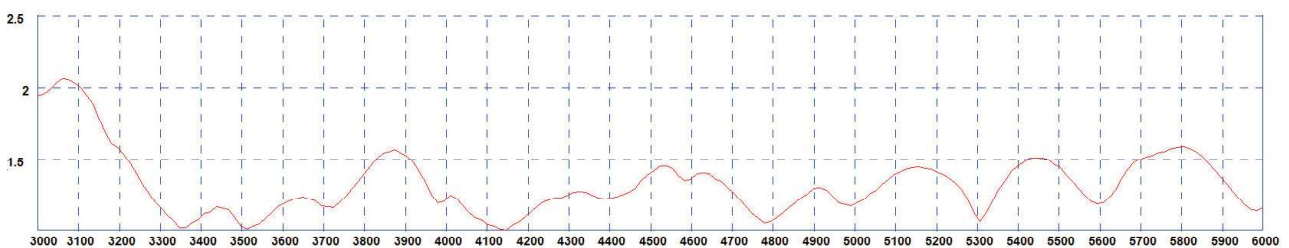
PANORAMA ANTENNAS

## Product Data

Part No.		WMM49G-36-55-NJ	WMM39G-36-55-NJ	WMM29G-36-55-NJ
<b>Electrical Data</b>				
Frequency range (GHz)		4x 3.4-3.8 / 4.9-5.0	3x 3.4-3.8 / 4.9-5.0	2x 3.4-3.8 / 4.9-5.0
Operational bands		4x 3.6/5.0GHz	3x 3.6/5.0GHz	2x 3.6/5.0GHz
Radiation pattern		Directional		
Nominal polarisation		2x Horizontal 2x Vertical	1x Horizontal 2x Vertical	1x Horizontal 1x Vertical
Peak gain	3.4-3.8 GHz	9dBi		
(excl cable loss)+	5-6 GHz	9dBi		
	3.6 GHz H Plane	60		
Typical 3dB	5.4 GHz H Plane	65		
beamwidth ° +	3.6 GHz E Plane	55		
	5.4GHz E Plane	50		
Efficiency - excluding cable loss (all bands)		> 60%		
Correlation co-efficient ( all bands)		< 0.2		
Max input power (W)		20 Watts		
Nominal impedance		50Ω		
<b>Mechanical Data</b>				
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 Resistance		IK10		
Weight (g)		1250	1185	1120
<b>Mounting Data</b>				
Fixing		Rail mount / mast mount		
Mounting bracket material		Stainless steel / Aluminium		
Pole diameter (mm)		20-50 / (0.78 - 1.96")		
<b>Connector Data</b>				
Type		N female x 4	N female x 3	N female x2
+Peak gain and beamwidth data for each element measured individually based on a vertically polarised element				

## Electrical Data

Typical VSWR\*



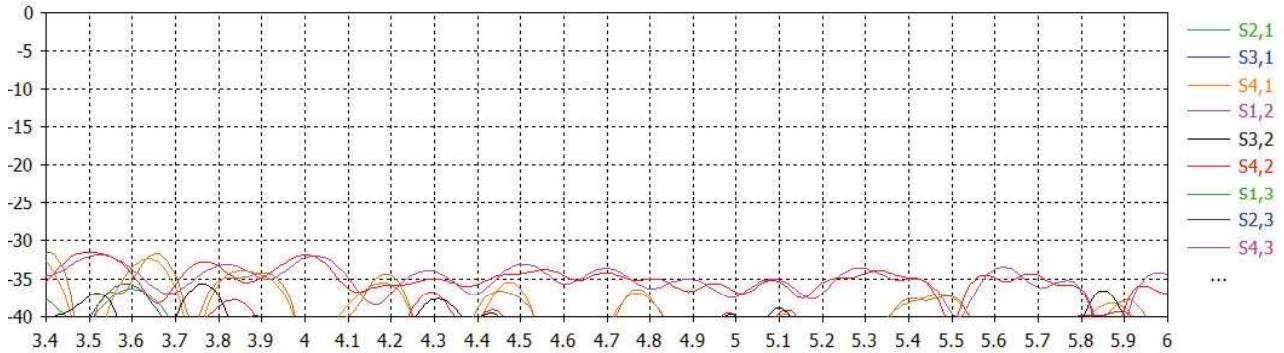
\*VSWR of typical element measured in free space without cable

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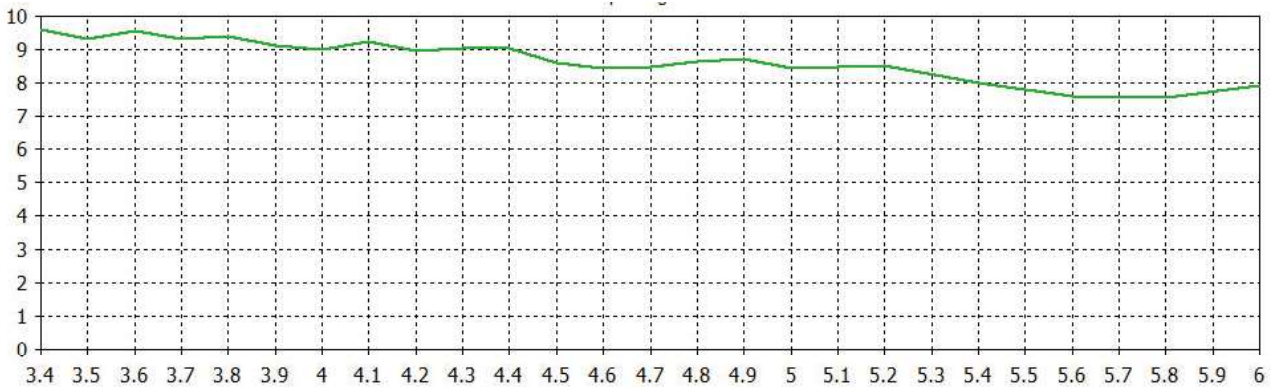
## Electrical Data

Typical Isolation \*\*



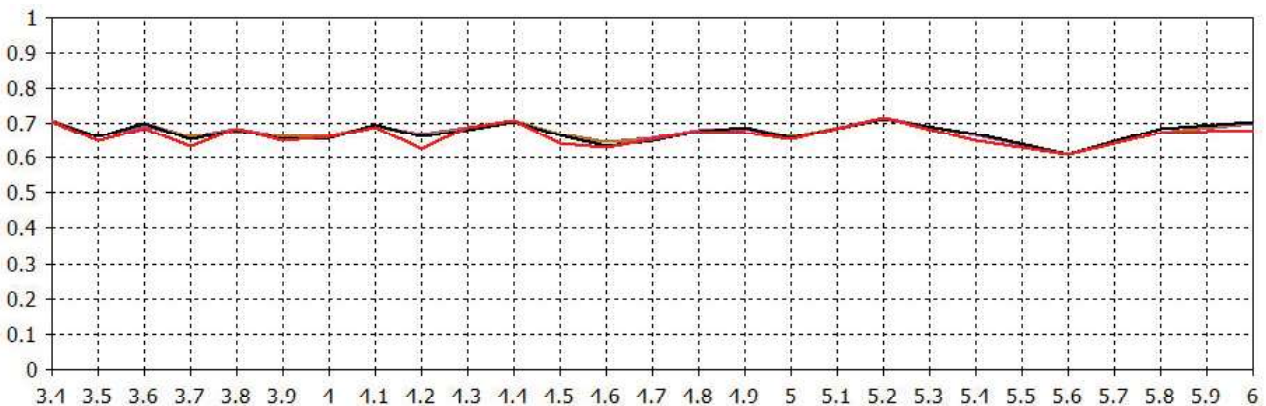
\*\*Isolation measured in free space without cable.

Typical Swept Peak Gain \*\*\*



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

Typical Efficiency \*\*\*\*



\*\*\*\* Efficiency simulated in CST Microwave studio for each element excluding cable loss

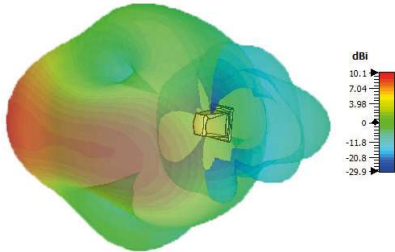
# MiMo Directional 3.6/5.0GHz Antenna

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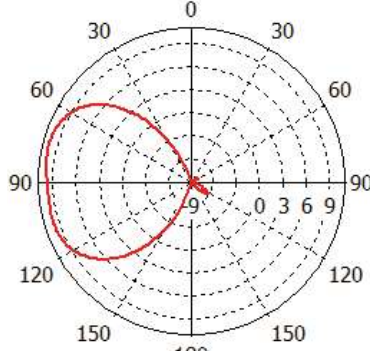
\* Patterns simulated in CST Microwave studio based on 4x Elements fed together

Pattern Data 4x Elements

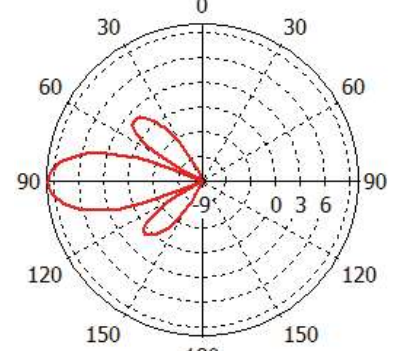
Typical 3D Pattern 3.6GHz\*



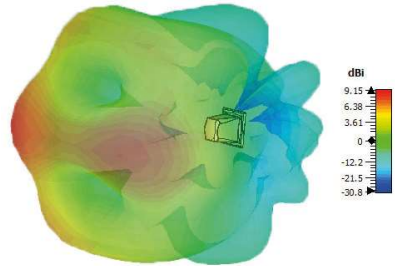
Typical E Plane Pattern 3.6GHz\*



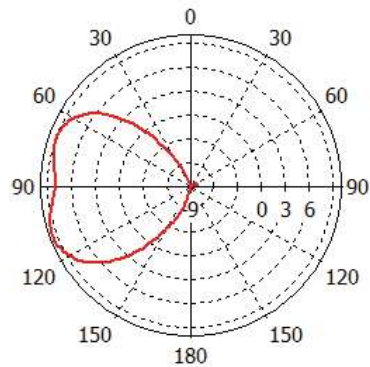
Typical H Plane Pattern 3.6GHz\*



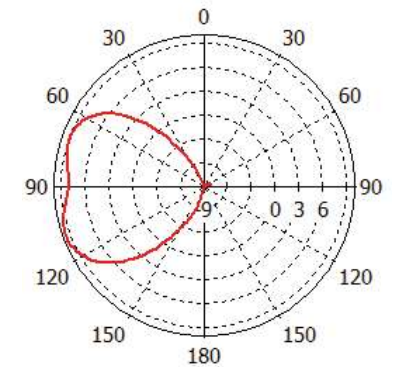
Typical 3D Pattern 5.4GHz\*



Typical 3D E Plane Pattern 5.4GHz\*\*



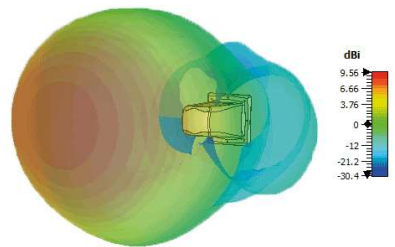
Typical H Plane Pattern 5.4GHz\*\*



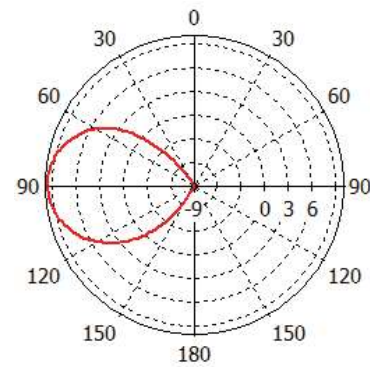
\*\* Patterns simulated in CST Microwave studio based on one vertical element fed

Pattern Data Each Element

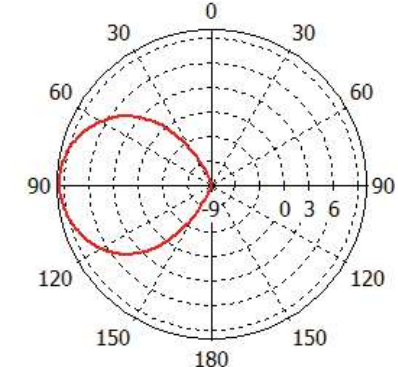
Typical 3D Pattern 3.6GHz\*\*



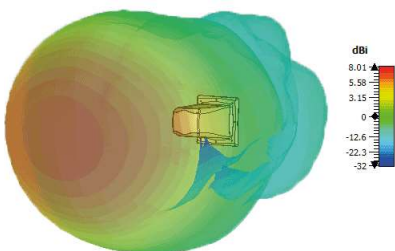
Typical E Plane Pattern 3.6GHz\*\*



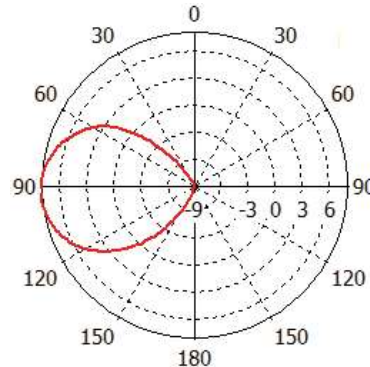
Typical H Plane Pattern 3.6GHz\*\*



Typical 3D Pattern 5.4GHz\*\*



Typical 3D E Plane Pattern 5.4GHz\*\*



Typical H Plane Pattern 5.4GHz\*\*

