Low PIM MiMo Omni Ceiling Antenna

CMM-6-60

- Low Profile
- 2x2 MiMo 4G/5G
- Flame Retardant Materials
- Low PIM Construction

The CMM-6-60 range has been designed to provide 2x2 MiMo coverage for 4G & 5G networks in a low profile package. The compact, robust low-profile housing contains two antenna elements with effective isolation and low correlation covering 617-960/1710-6000MHz.

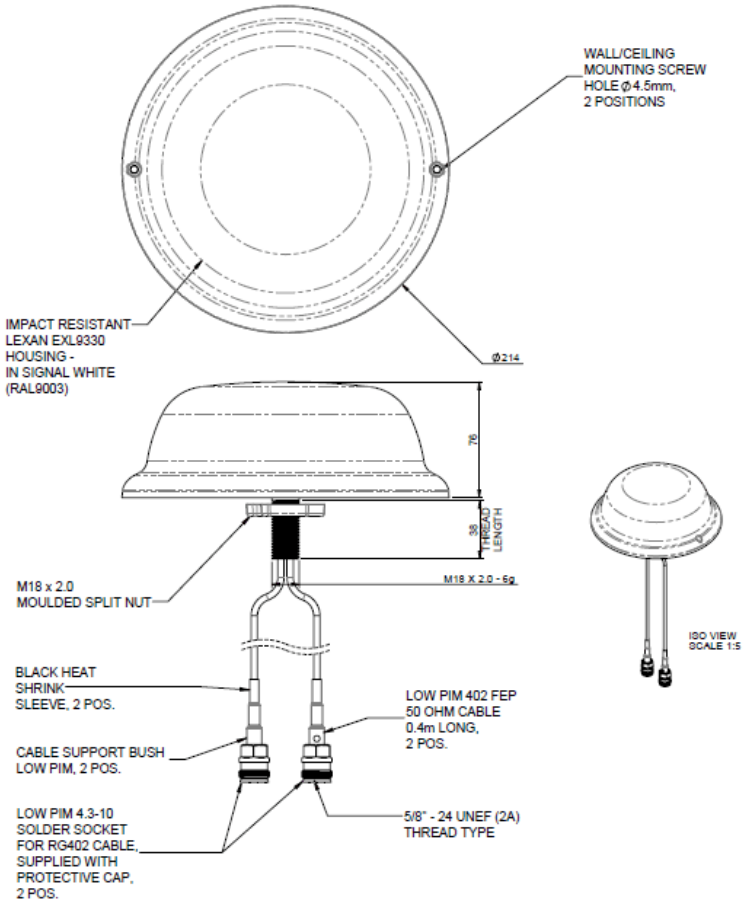
The antenna is designed to be ceiling mounted and can be fitted on a conductive or non- conductive panel. Supplied with integrated flame retardant low PIM RG402 cables and a halogen free flame retardant radome the antenna is suitable for many environments.

PimGuard™ Technology

This product features Panorama Antennas' PIM Guard Technology and will meet or exceed a third order intermodulation level of < -150dBC (2x 20W carrier)+

Technical Drawing

CMM-6-60-054310 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
W: www.panorama-antennas.com

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PANORAMA ANTENNAS

Product Data

Part No.			
		CMM-6-60-05NJ	CMM-6-60-054310
Electrical Data			
Frequency Range		2x 617-960/1710-6000	
Peak Gain: Isotropic ǂ	617-960MHz	3dBi	
	1710-3800MHz	6dBi	
	4900-6000MHz	7dBi	
Pattern		Omni-directional	
Typical VSWR*	617-698 MHz	<2:1	
	698-960/1710-6000	<1.5:1	
Typical Efficiency		>80%	
Correlation Co-efficient		<0.1	
Passive intermod. (2x20W, 3rd ord.) dBc+		< -150	
Nominal Impedance		50Ω	
Max input power (W)		20	
Mechanical Data			
Dimensions (mm)	Diameter	214 (8.4")	
	Height	76 (2.9")	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Material		LEXAN EXL 9330 (UL94-V0)	
Colour		White	
Typical Weight (g)		530	
Mounting Data			
Fixing		Panel Mount - 18mm (3/4")	
Cable Data			
2G/3G/4G Cables	Cable Type	402 Low PIM Flame Retardant Cable	
	Diameter (mm)	4 (0.16")	
	Length (m)	0.5(1'6")	
	Termination	2x N (f)	2x 4.3-10 (f)

ǂ Peak gain simulated with all elements fed and no ground plane excluding cable loss

* Typical VSWR stated as measured with 1.2m (6') of cable

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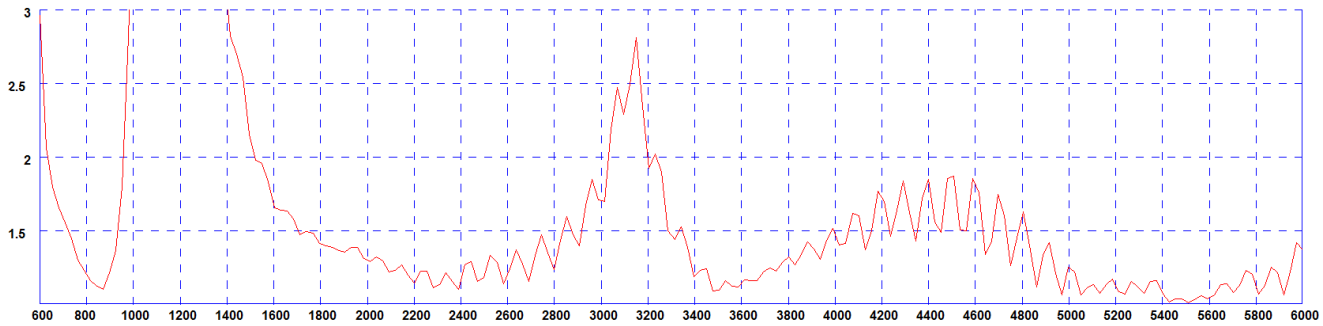
CMM-6-60

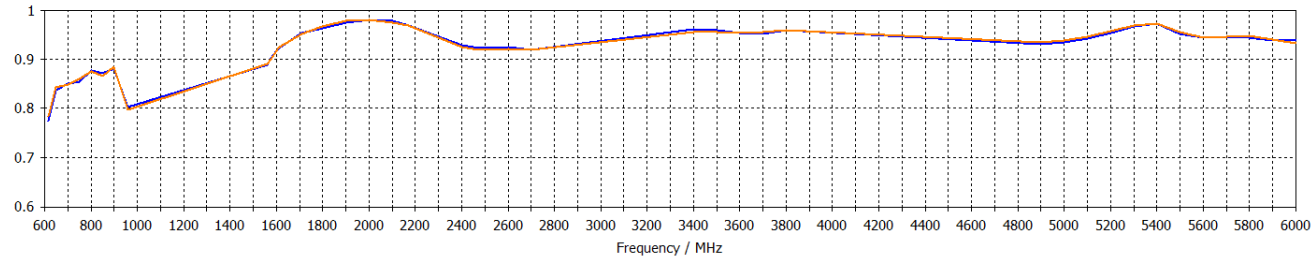
Electrical Data - Cell

Typical VSWR - Elements 1&2*



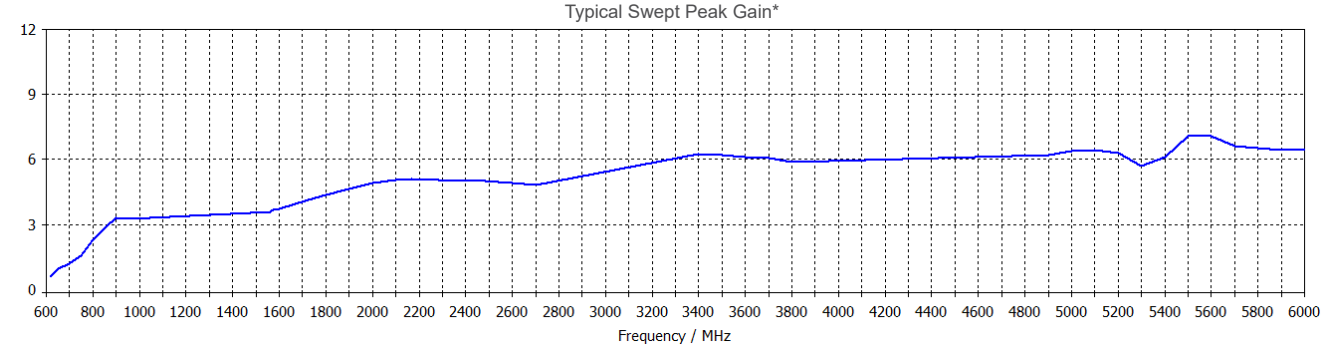
* VSWR measured with 1.2m (4') of RG402 cable and no ground plane

Typical Efficiency - Elements 1&2*



*Element efficiency simulated in CST Microwave Studio with both elememts fed and without cable loss.

Typical Swept Peak Gain*



* Swept peak gain simulated in CST Microwave Studio with both elememts fed and without cable loss.

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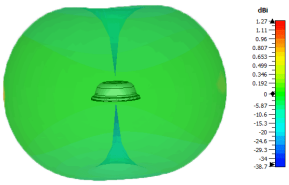
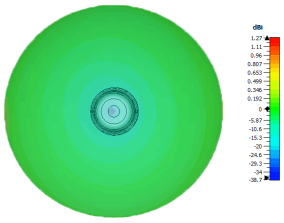
3D Patterns - Cell

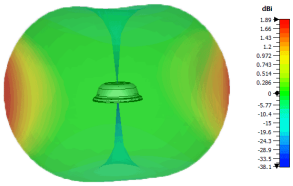
Typical 3D Pattern- Side (617MHz)



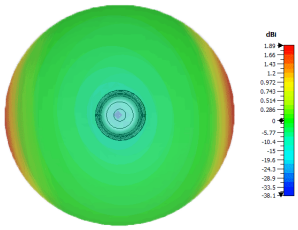
Typical 3D Pattern -Top (617MHz)



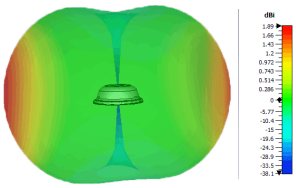
Typical 3D Pattern- Side (700MHz)



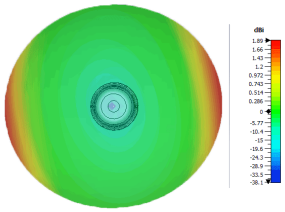
Typical 3D Pattern- Top (700MHz)



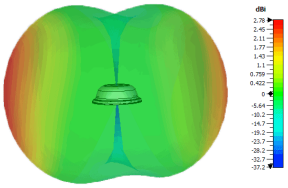
Typical 3D Pattern- Side (800MHz)



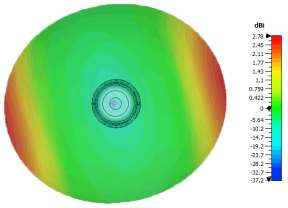
Typical 3D Pattern -Top (800MHz)



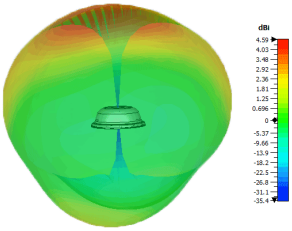
Typical 3D Pattern- Side (900MHz)



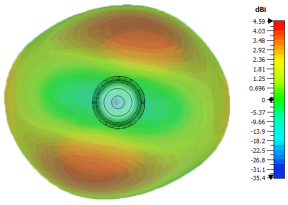
Typical 3D Pattern- Top (900MHz)



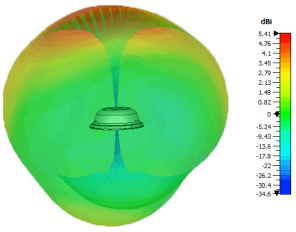
Typical 3D Pattern- Side (1800MHz)



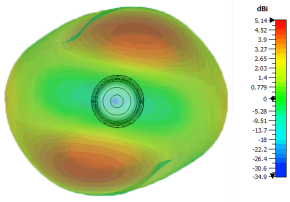
Typical 3D Pattern -Top (1800MHz)



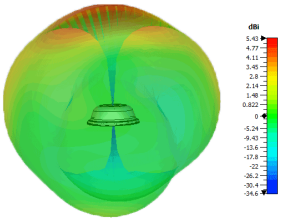
Typical 3D Pattern- Side (1900MHz)



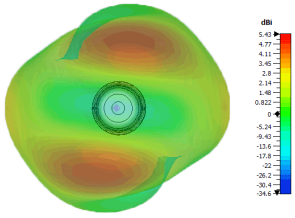
Typical 3D Pattern- Top (1900MHz)



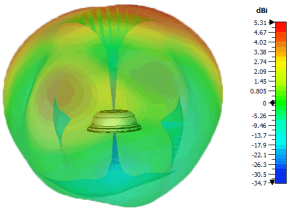
Typical 3D Pattern- Side (2100MHz)



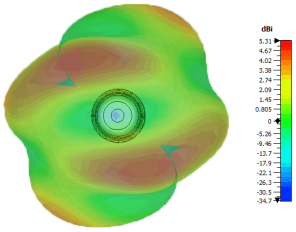
Typical 3D Pattern -Top (2100MHz)



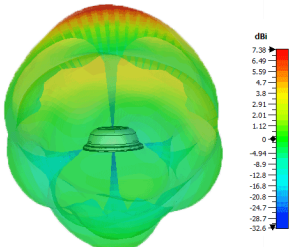
Typical 3D Pattern- Side (2600MHz)



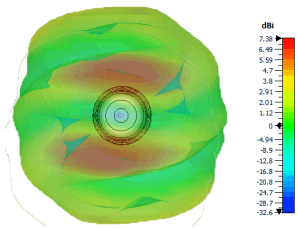
Typical 3D Pattern- Top (2600MHz)



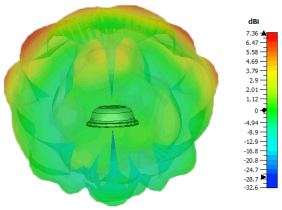
Typical 3D Pattern- Side (3600MHz)



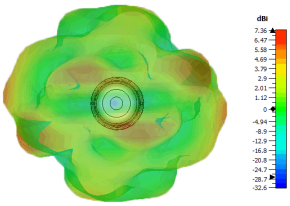
Typical 3D Pattern -Top (3600MHz)



Typical 3D Pattern- Side (5400MHz)



Typical 3D Pattern- Top (5400MHz)



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