

Low PIM MiMo Omni Ceiling Antenna

CMM-6-60

PANORAMA ANTENNAS



- 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.

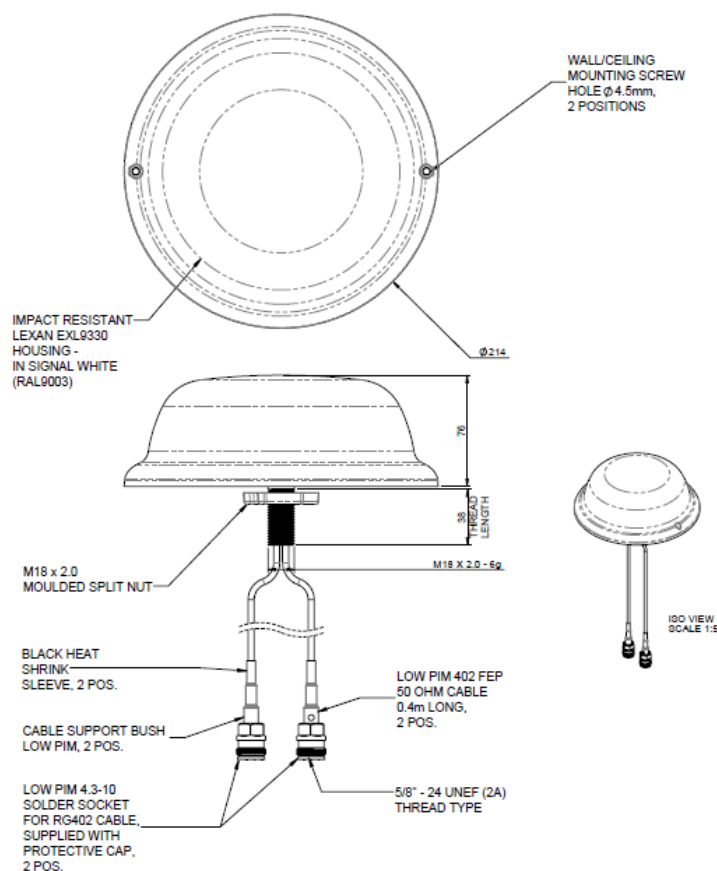
The antenna is designed to be ceiling mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant low PIM RG402 cables and a halogen free flame retardant radome the antenna is suitable for many environments.



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



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Product Data

Part No.

CMM-6-60-05NJ

CMM-6-60-054310

Electrical Data

Frequency Range 2x 617-960/1710-6000

Peak Gain: 617-960MHz 3dBi

Isotropic † 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

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)

† 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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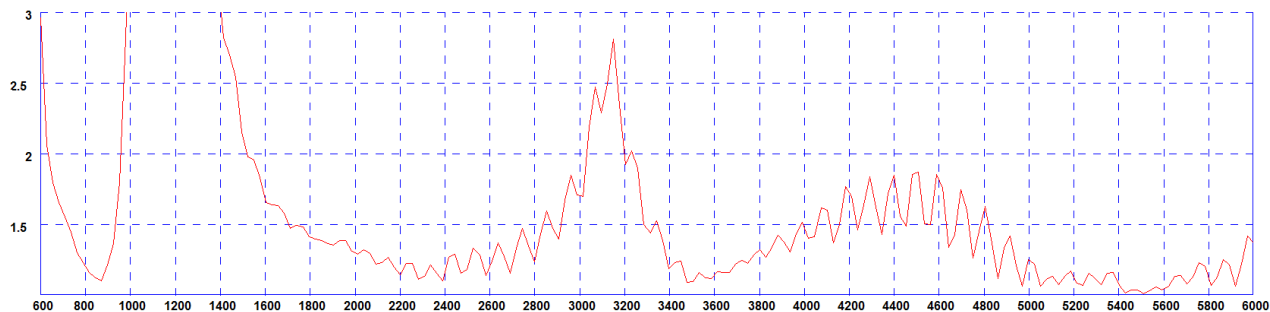
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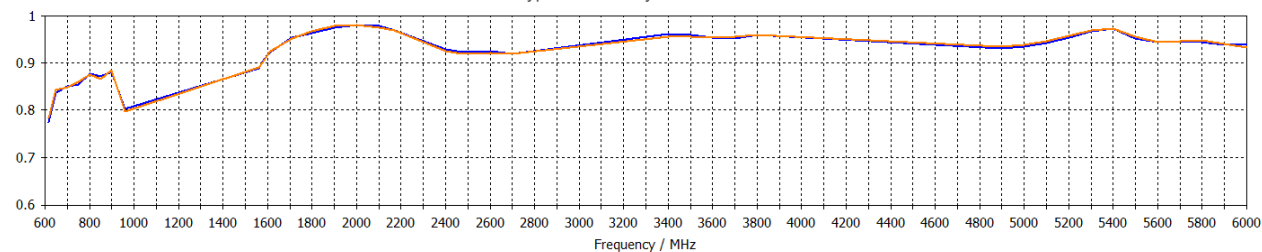
Electrical Data - Cell

Typical VSWR - Elements 1&2*



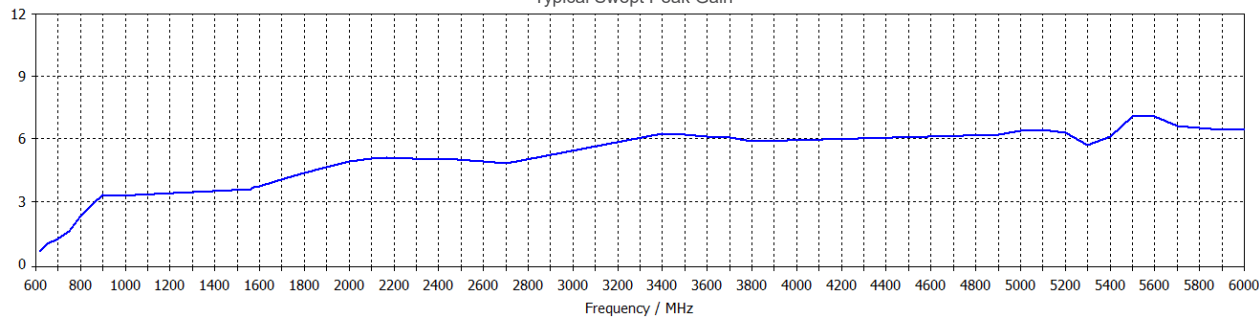
* VSWR measured with 1.2m (4') of RG402 cable and no ground plane

Typical Efficiency - Elements 1&2*



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

Typical Swept Peak Gain*



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

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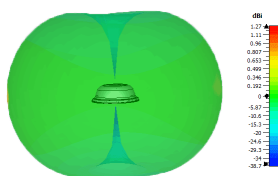
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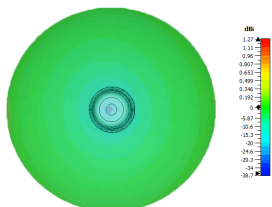
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3D Patterns - Cell

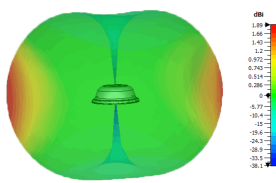
Typical 3D Pattern- Side (617MHz)



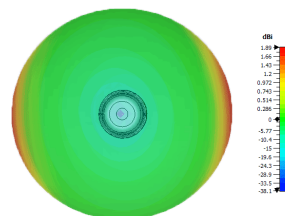
Typical 3D Pattern -Top (617MHz)



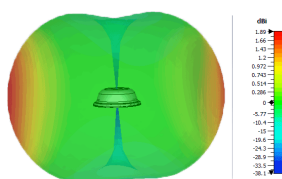
Typical 3D Pattern- Side (700MHz)



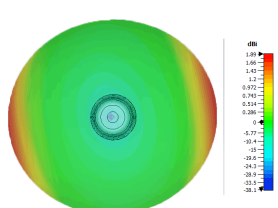
Typical 3D Pattern- Top (700MHz)



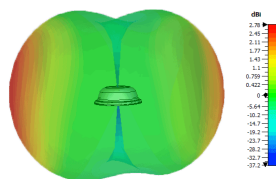
Typical 3D Pattern- Side (800MHz)



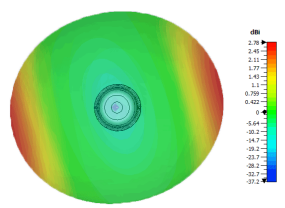
Typical 3D Pattern -Top (800MHz)



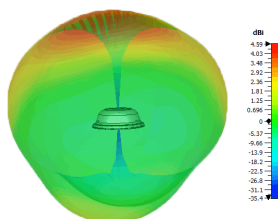
Typical 3D Pattern- Side (900MHz)



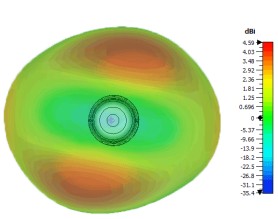
Typical 3D Pattern- Top (900MHz)



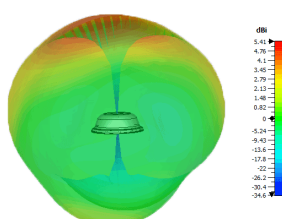
Typical 3D Pattern- Side (1800MHz)



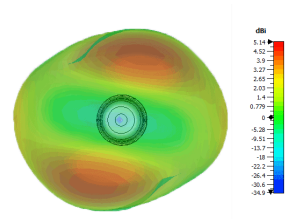
Typical 3D Pattern -Top (1800MHz)



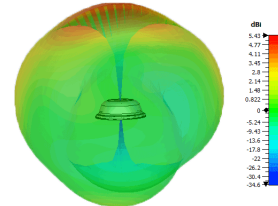
Typical 3D Pattern- Side (1900MHz)



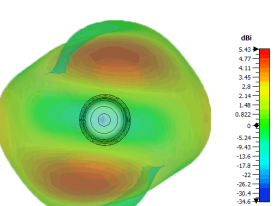
Typical 3D Pattern- Top (1900MHz)



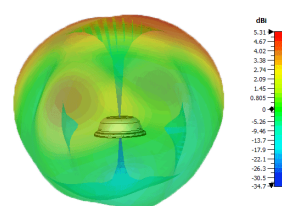
Typical 3D Pattern- Side (2100MHz)



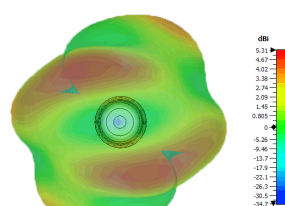
Typical 3D Pattern -Top (2100MHz)



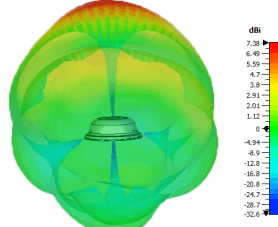
Typical 3D Pattern- Side (2600MHz)



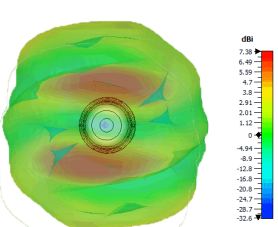
Typical 3D Pattern- Top (2600MHz)



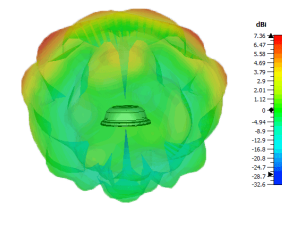
Typical 3D Pattern- Side (3600MHz)



Typical 3D Pattern -Top (3600MHz)



Typical 3D Pattern- Side (5400MHz)



Typical 3D Pattern- Top (5400MHz)

