

# Low PIM Ultra Low Profile SiSo Ceiling Antenna

CMSLP-038-4

PANORAMA ANTENNAS

- Ultra Low Profile
- Siso UHF/3G/4G/5G Antenna
- Flame Retardant Materials
- Low PIM Construction



The CMSLP-038-4 range has been designed to provide SiSo UHF/3G/4G & 3.8GHz 5G coverage for DAS networks in an ultra low profile package. The compact, robust low-profile housing contains a highly efficient antenna element covering 380-520/617-960/1710-3800MHz.

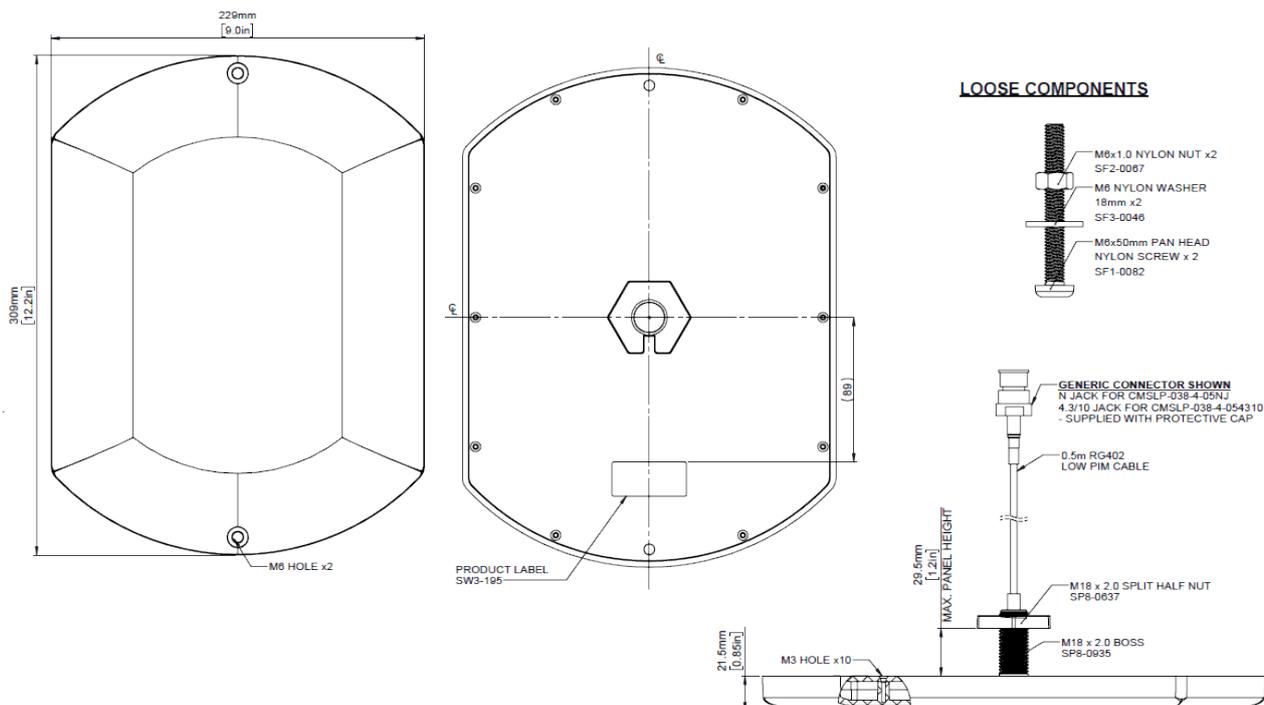
At < 22mm (0.85") high the antenna is extremely discreet and ideal for low clearance deployment locations.

The antenna is designed to be ceiling mounted and can be fitted on any non-conductive panel. Supplied with integrated flame retardant low PIM RG402 cable and a 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



# Low PIM Ultra Low Profile SiSo Ceiling Antenna

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Product Data

Part No.		CMSLP-038-4-05NJ	CMSLP-038-4-054310
<b>Electrical Data</b>			
Frequency Range (MHz)		380-3800	
Peak Gain: Isotropic †	380-520MHz	2	
	617-960MHz	4	
	1710-3800MHz	4	
Pattern		Omni-directional	
Typical VSWR		<2.2:1	
Passive intermod. (2x20W, 3rd ord.) dBc*		< -150	
Nominal Impedance		50Ω	
Max input power (W)		50	
<b>Mechanical Data</b>			
Dimensions (mm)	Length	309 (12.2")	
	Height	229 (9.0")	
	Depth	21.5 (0.85")	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Material		FR ABS	
Colour		White	
Typical Weight (g)		780	
<b>Mounting Data</b>			
Fixing		Panel Mount - 18mm (3/4") / 2x 6mm (1/4") Screws	
Max Panel Thickness		29.5mm (1.2")	
<b>Cable Data</b>			
2G/3G/4G Cables	Cable Type	402 Low PIM Flame Retardant Cable	
	Diameter (mm)	4 (0.16")	
	Length (m)	0.5(1'6")	
	Termination	N (f)	4.3-10 (f)

† Peak gain simulated with no ground plane and excluding cable loss

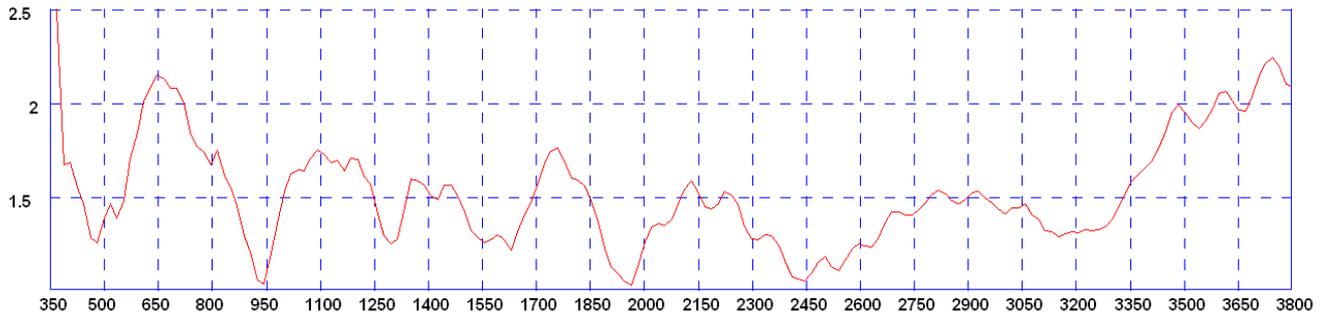
\* Typical VSWR stated as measured with 0.5m (1.5') of cable

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## Electrical Data - Cell

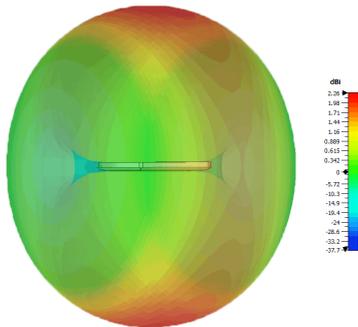
Typical VSWR \*



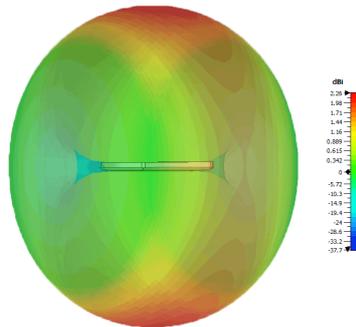
\* VSWR measured with 0.5m (1.5') of RG402 cable and no ground plane

## 3G Patterns - Cell

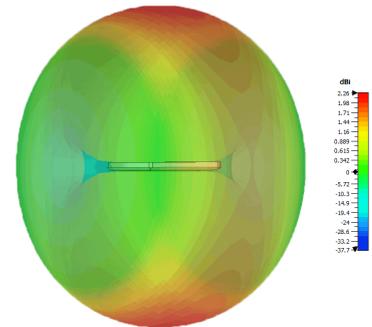
Typical 3D Pattern- Side (400MHz)



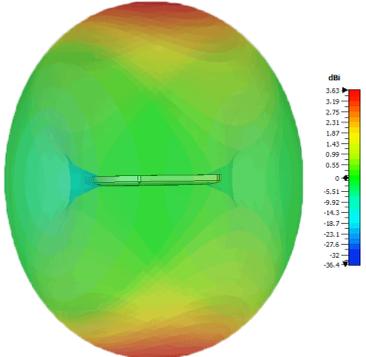
Typical 3D Pattern- Side (500MHz)



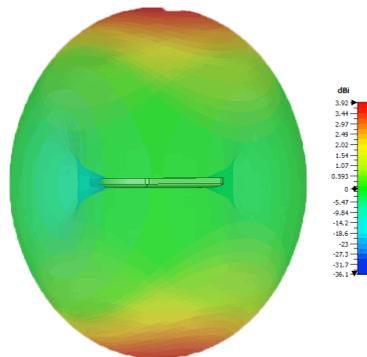
Typical 3D Pattern- Side (700MHz)



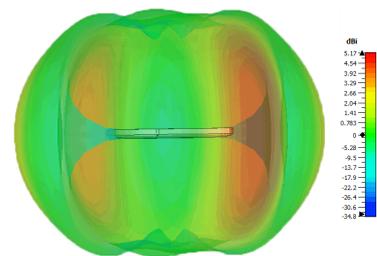
Typical 3D Pattern- Side (800MHz)



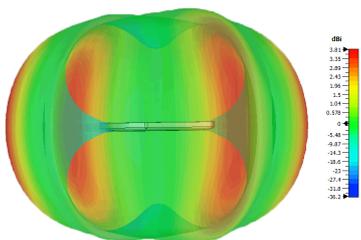
Typical 3D Pattern- Side (900MHz)



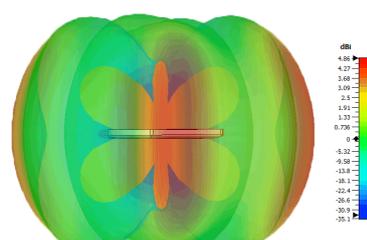
Typical 3D Pattern- Side (1800MHz)



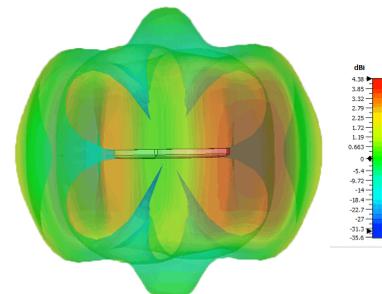
Typical 3D Pattern- Side (2000MHz)



Typical 3D Pattern- Side (2600MHz)



Typical 3D Pattern- Side (3600MHz)



3D patterns simulated in CST Microwave Studio with no ground plane and excluding cable loss