

# Ultra Low Profile MiMo 3.6/5.0GHz Antenna

PANORAMA ANTENNAS

CM[X]-36-55-2[VAR]



## Ultra Low Profile

Up to 4 x 4 MiMo Dual Band Private LTE / CBRS

EN45545-2 Certified

EN50155 Certified

Certified to IP69K and IK10

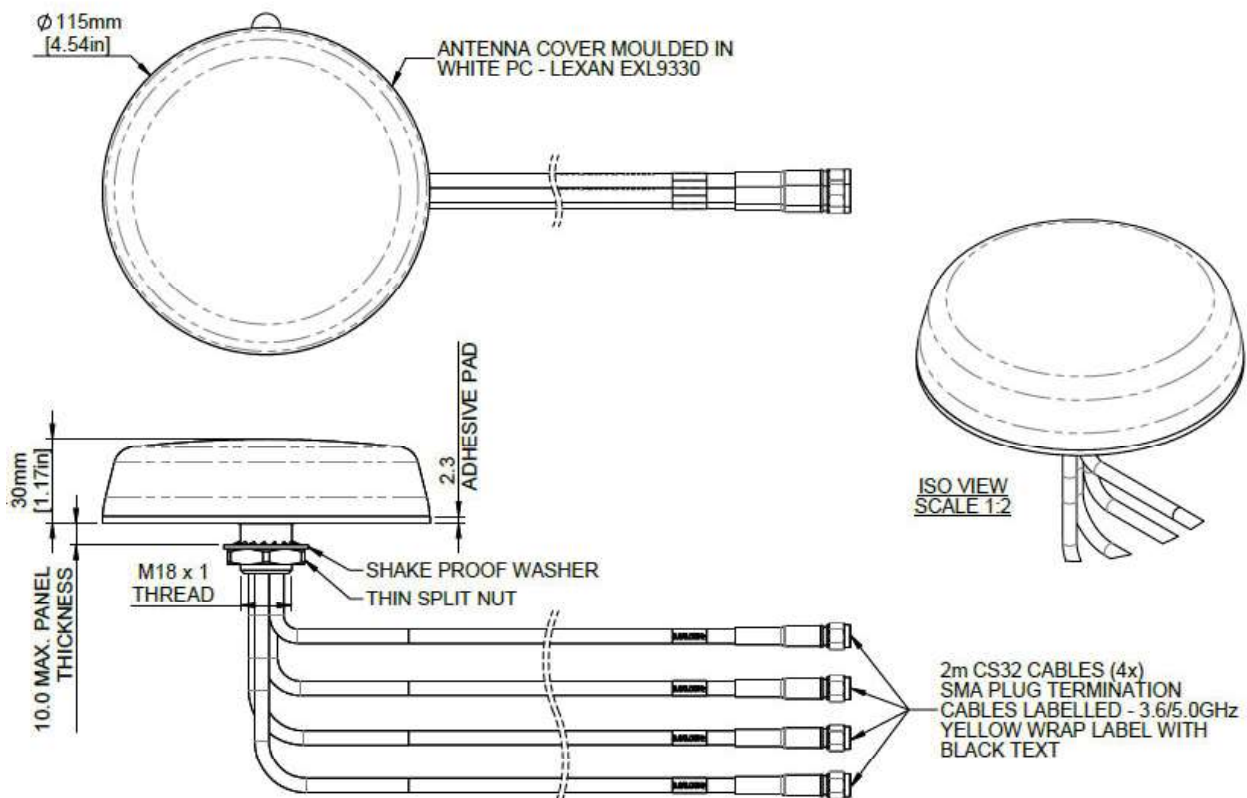
The CM[X]-36-55 range has been designed to provide MiMo dual band 3.6/5.0GHz coverage for private LTE / CBRS in an ultra low profile package. The compact, robust low-profile housing contains up to four antenna elements with effective isolation and low correlation covering 3.4-3.8/4.9-6GHz.

The antenna is designed to be ceiling mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant CS32 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments.

EN45545-2 and EN50155 approvals mean that the antenna is suitable for mounting on and inside rolling stock and the low height make the product suitable for low clearance scenarios including two deck rail cars.

## Technical Drawing

CM4-36-55-2SP Shown



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## Product Data

<b>Part No.</b>	<b>CM4-36-55-2SP</b>	
	4x 3.6/5.0 GHz	
Peak Gain:	3.4-3.8GHz	4dBi
Isotropic †	4.9-6.0GHz	6dBi
Typical VSWR*	< 2:1	
Typical Isolation*	> 15dB	
Pattern	Omni-directional	
Nominal Impedance	50Ω	
Max Input Power	10W	

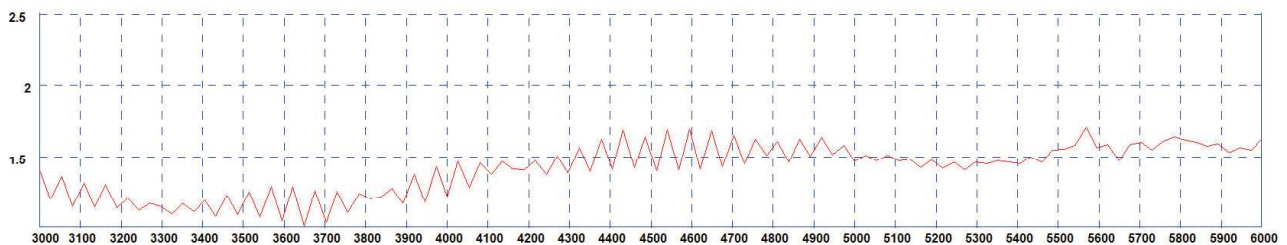
<b>Mechanical Data</b>		
Dimensions	Diameter	115mm (4.52")
	Height	30mm (1.18")
Operating Temp.	-30° / +70°C (-22° / 158°F)	
Material	LEXAN EXL9330	
Colour	White	
IP Rating	IP66 / IP69K**	
Vandal Protection	IK10	
Typical Weight	225g	
Regulatory Approvals	EN45545-2 : HL 1-3 / EN50155	

<b>Mounting Data</b>		
Fixing	Panel Mount - 18mm (3/4")	

<b>Cable Data</b>		
WiFi Cables	Cable Type	CS32 Flame Retardant to UN ECE 118 / EN6722 / EN45545-2
	Diameter	5mm (0.2")
	Length	2m ( 6' )
	Termination	SMA (m)

## Typical VSWR - Elements 1-4\*

## Product Data



\* VSWR measured with 2m (6') of CS32 cable in free space

† Peak gain simulated with all elements fed in free space excluding cable loss

\* Typical Isolation and VSWR stated as measured with 2m (6') of cable

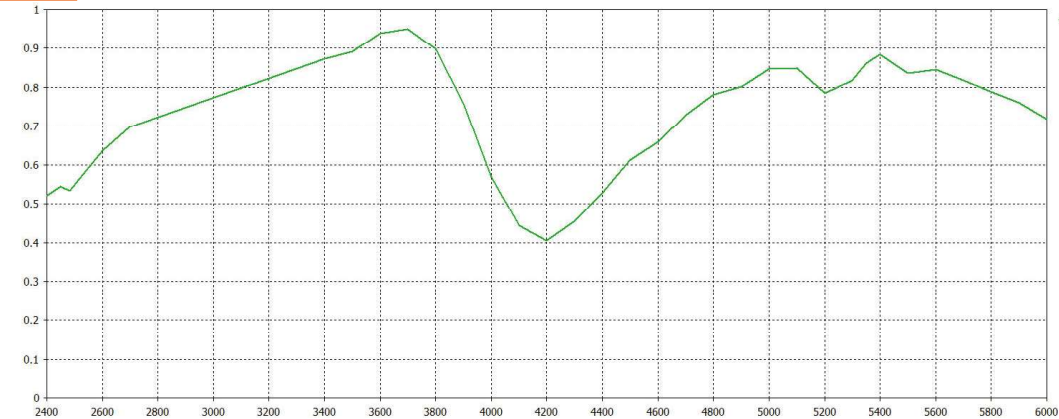
\*\*When installed in accordance with SW3-996

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## Electrical Data

Typical Efficiency - Elements 1-4\*



\* Efficiency simulated in CST Microwave Studio in free space without cable

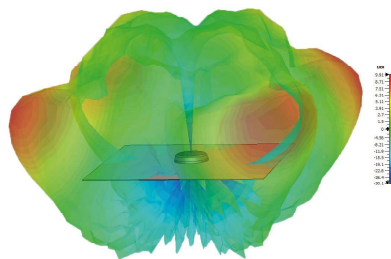
Typical Isolation\*



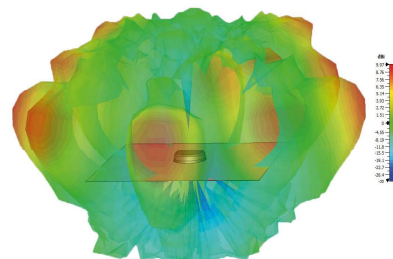
\*Typical Isolation measured with 2m CS32 cable in free space Red Trace = elements 1-4 Green Trace= Elements 1-3 Blue Trace = Elements 2-3

## Pattern Data

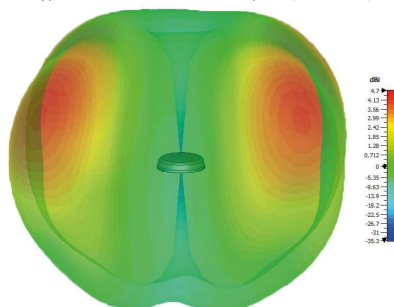
Typical 3D Pattern CM4 Ground Plane (3600MHz)



Typical 3D Pattern CM4 Ground Plane (5500MHz)



Typical 3D Pattern CM4 Free Space (3600MHz)



Typical 3D Pattern CM4 Free Space (5500MHz)

