Ultra Low Profile MiMo 3.6/5.0GHz Antenna

CM[X]-35-55-2SP





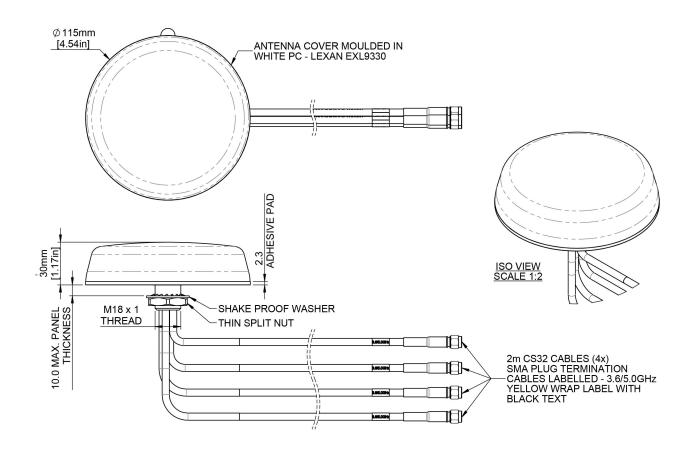
- Ultra Low Profile
- Up to 4 x 4 MiMo Dual Band Private LTE / CBRS
- EN45545-2 Certified
- EN50155 Certified
- Certified to IP69K and IK10

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 and EN45545) and a halogen free flame retardant radome the antenna is suitable for many environments.

EN45545 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

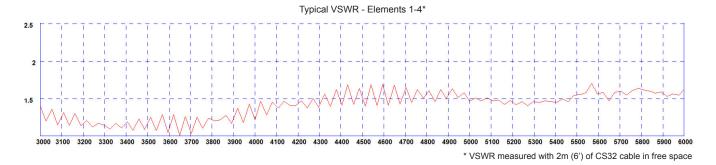


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CM[X]-35-55-2SP

				Product Data	
Part No.					
		CM2-36-55-2SP	CM3-36-55-2SP	CM4-36-55-2SP	
Electrical Data					
Frequency Range (MHz)		2x 3.6/5GHz	3x 3.5/5GHz	4x 3.6/5.0 GHz	
Peak Gain: Isotropic +	3.4-3.8GHz		4dBi		
	4.9-6.0GHz		6dBi		
Typical VSWR*			< 2:1		
Typical Isolation*			> 15dB		
Pattern			Omni-directional		
Nominal Impedance			50Ω		
Max Input Power			10W		
Mechanical Data					
Dimensions (mm)	Length		115mm (4.52")		
	Width		30mm (1.18")		
Operating Temp (°C)			-30° / +70°C (-22° / 158°F)		
Material			LEXAN EXL9330		
Colour			White		
IP Rating			IP66 / IP69K**		
Vandal Protection			IK10		
Regulatory Approvals			EN45545-2 : HL 1-3 / EN50155		
Mounting Data					
Fixing	Panel Mount - 18mm (3/4")				
Cable Data		Elements 1&2 (Cell)			
WiFi Cables	Cable Type	CS32 Flar	CS32 Flame Retardant to UN ECE 118 / EN6722 / EN45545		
	Diameter		5mm (0.2")		
	Length		2m (6')		
	Termination	SMA (m)			



⁺ 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

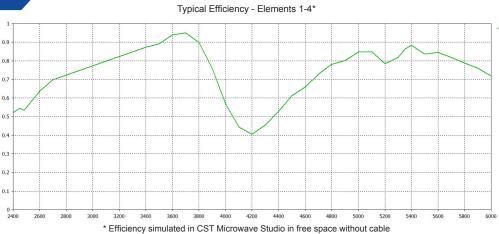
^{**}When installed in accordance with SW3-996

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PANORAMA PANTENNAS

CM[X]-35-55-2SP

Electrical Data - Cell



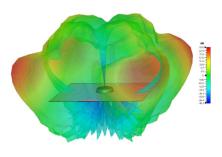
Typical Isolation*

-15
-20
-25
-40
-45
-3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4500 4500 4500 4500 500 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000

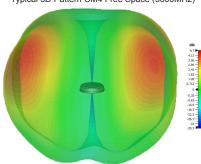
*Typical Isolation measured with 2m CS32 cable in free space Red Trace = elements 1-4 Green Trace = Elements 1-3 Blue Trace = Elements 2-3

3D Patterns - Cell

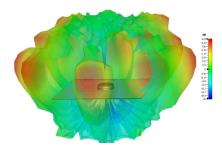
Typical 3D Pattern CM4 Ground Plane (3600MHz)



Typical 3D Pattern CM4 Free Space (3600MHz)



Typical 3D Pattern CM4 Ground Plane (5500MHz)



Typical 3D Pattern CM4 Free Space (5500MHz)

