

Ultra Low Profile MiMo WiFi Antenna

CM[X]-24-58-2[VAR]

- Ultra Low Profile
- Up to 4 x 4 MiMo Dual Band WiFi
- Cost effective solution
- Ideal for M2M and IoT applications

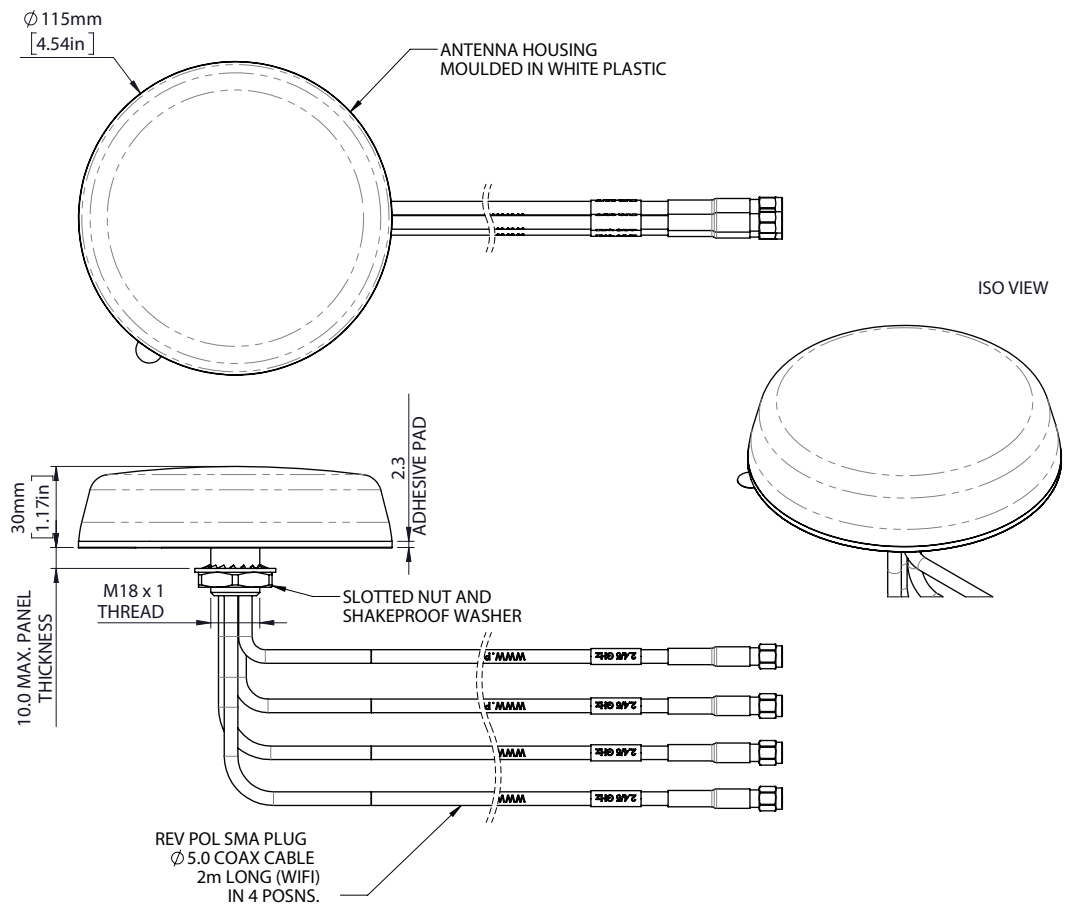


The CM[X]-24-58 range has been designed to provide MiMo dual band WiFi coverage in an ultra low profile package. The compact, robust low-profile housing contains up to four antenna elements with effective isolation and low correlation covering 2.4-2.5/4.9-6GHz.

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.

Technical Drawing

CM4-24-58-2RPSP Shown



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Product Data

Part No.	CM2-24-58-2[VAR]	CM3-24-58-2[VAR]	CM4-24-58-2[VAR]	
	2x 2.4/5.0 GHz	3x 2.4/5.0 GHz	4x 2.4/5.0 GHz	
Peak Gain:	2.4-2.5GHz	4dBi	4dBi	6dBi
Isotropic †	4.9-6.0GHz	5dBi	6dBi	9dBi
Typical VSWR*		< 2:1		
Typical Isolation*		> 12dB		
Pattern		Omni-directional		
Nominal Impedance		50Ω		
Max Input Power		10W		

Mechanical Data		
Dimensions	Diameter	115mm (4.52")
	Height	30mm (1.18")
Operating Temp.		-30° / +70°C (-22° / 158°F)
Material		Geloy HRA 222F
Colour		White
Typical Weight		225g

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

Cable Data				
WiFi Cables	Cable Type	CS32 Flame Retardant to UN118.01 / EN6722 / EN45545-2		
	Diameter	5mm (0.2")		
	Length	2m (6')		
	Termination			
	Rev Pol SMA Plug	CM2-24-58-2RPSP	CM3-24-58-2RPSP	CM4-24-58-2RPSP
	Right Angled N Plug	CM2-24-58-2RANP	CM3-24-58-2RANP	CM4-24-58-2RANP

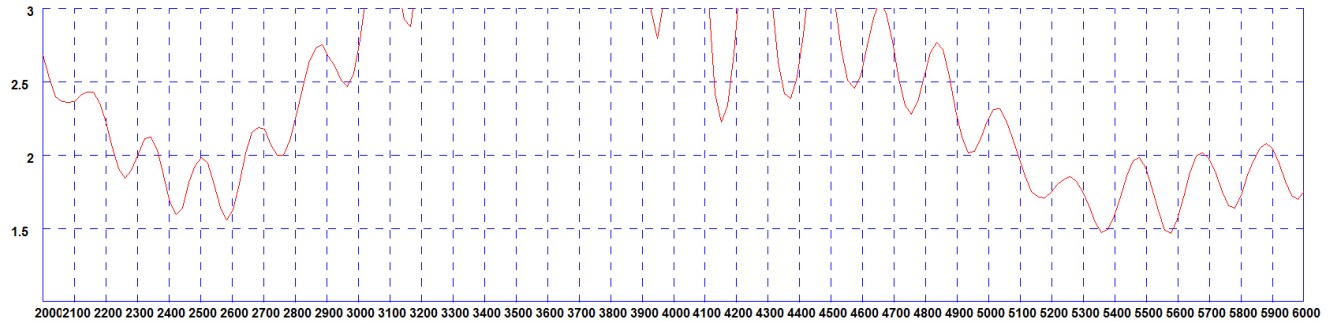
† Peak gain simulated with all elements fed on 600x600mm ground plane excluding cable loss
 * Typical Isolation and VSWR stated as measured with 0.5m (1.5') of cable

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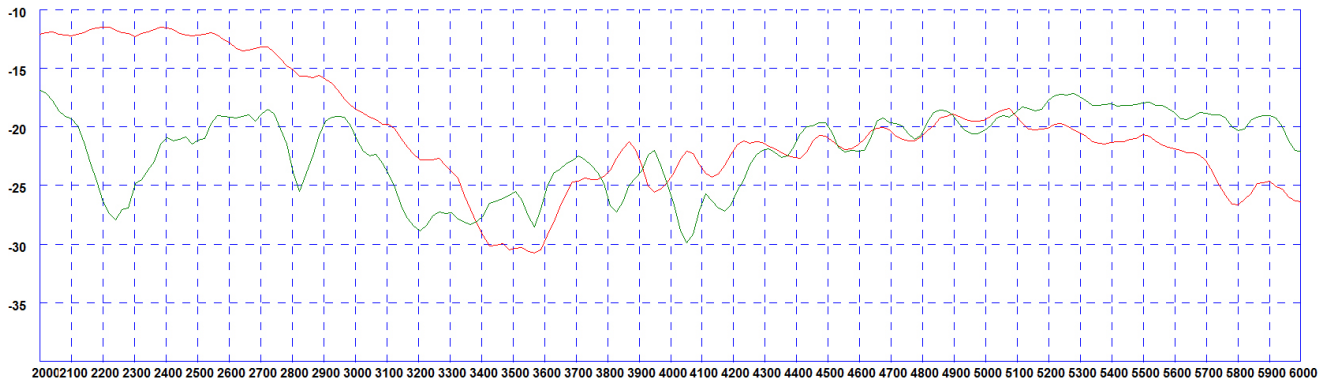
Electrical Data

Typical VSWR - Elements 1-[3]4*



* VSWR measured with 0.5m (1.5') of CS32 cable

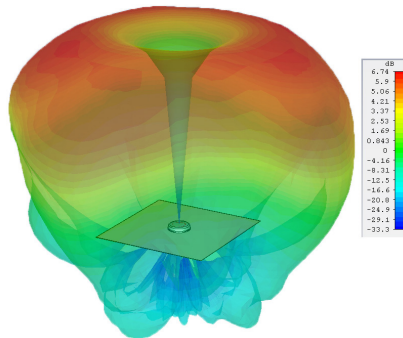
Typical Isolation - Elements 1-[3]4*



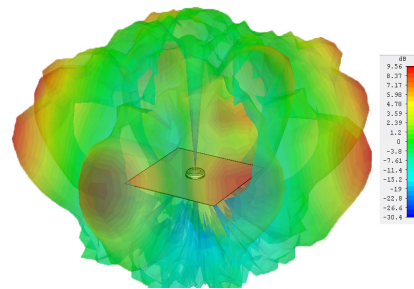
*Isolation measured with 0.5m (1.5') of CS32 cable Red Plot = Adjacent Elements Green Plot =Opposite Elements

Pattern Data

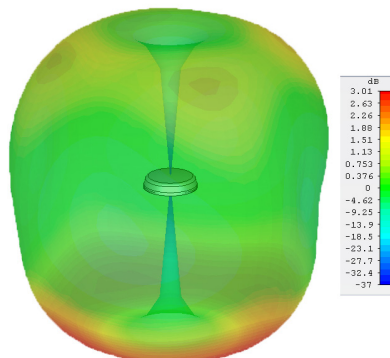
Typical 3D Pattern CM4 Ground Plane (2450MHz)



Typical 3D Pattern CM4 Ground Plane (5400MHz)



Typical 3D Pattern CM4 Free Space (2450MHz)



Typical 3D Pattern CM4 Free Space (5400MHz)

