

2x2 MiMo WiFi Internal Antenna

RAYM2-24-58

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- Window or Dashboard Mount
- 2x2 MiMo dual Band WiFi
- Suitable for M2 & M3 Category vehicles (UN ECE R118)



The RAYM2-24-58 antenna is an easy-to-fit product for in-vehicle WiFi. The housing incorporates two dual band WiFi 2.4/5.0GHz elements for 2x2 MiMo operation.

Meeting the requirements of UN ECE R118, the antenna is suitable for use in M2 & M3 Category vehicles (Transportation). The antenna housing is UV resistant and flame retardant, while the integral 3m length coaxial cables are flame retardant, low smoke specification.

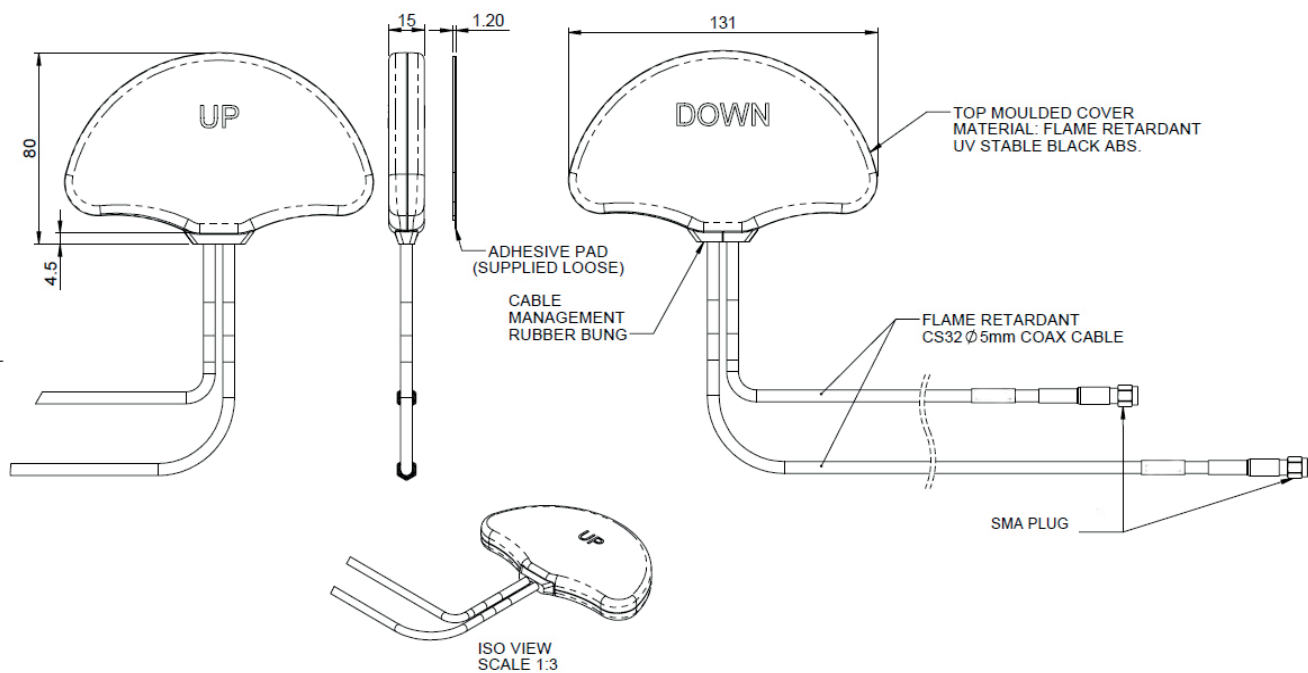
The antenna offers simple and quick installation on the windscreen, or on/under the dashboard using the supplied acrylic adhesive pad *

Note: This antenna is not suitable for mounting on conductive surfaces or metalized windows.

* Performance may change depending on mounting position/surface.

Technical Drawing

RAYM2-24-58 Shown



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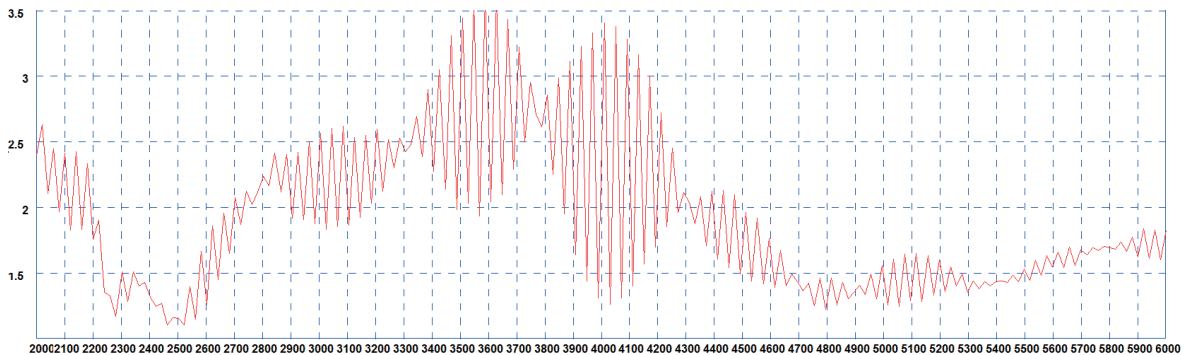
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Product Data

RAYM2-24-58

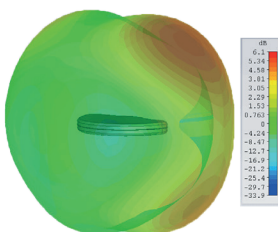
Electrical Data		
Frequency Range (MHz)	Elements 1 & 2	2.4/4.9-6.0 GHz
Peak Gain: Isotropic †	Elements 1&2: 2.4GHz	6dBi
	Elements 1&2: 4.9-6.0GHz	7dBi
Pattern		Omni-directional
Nominal Impedance		50Ω
Max input power (W)		20
Mechanical Data		
Dimensions (mm)	Height	15 (0.6")
	Length	131 (5.16")
	Depth	84.5 (3.33")
Operating Temp (°C)		-30° / +70°C (-30° / 158°F)
Material		UV Stable Flame Retardant ABS Plastic
Colour		Black
Typical Weight (g)		330
Mounting Data		
Fixing		Acrylic adhesive pad
Cable Data		
Elements 1 & 2: Wifi	Cable Type	CS32 (Meets UN ECE R118)
	Diameter (mm)	5 (0.2")
	Length (m)	3 (9.8')
	Termination	SMA Plug (Rev Pol)

Typical VSWR - Element 1&2*

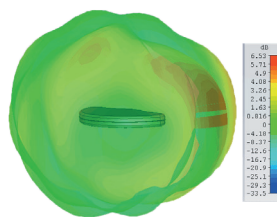


*VSWR measured mounted on a glass sheet with 3m of CS32 cable

Element 2: Typical 3D Pattern (2.4GHz)



Element 2: Typical 3D Pattern (5.4GHz)



† Element 1 & 2 Patterns simulated in CST Microwave Studio in free space excluding cable loss.
† Peak gain does not include cable attenuation