

MiMo ROOFTOP ANTENNA

RAIL ROOFTOP ANTENNA WITHOUT GPS

The MiMo Rooftop Antenna is designed specifically for use on trains, trams and buses. Incorporating two elements operating wideband across all frequencies from 698MHz to 6000MHz the MiMo Rooftop Antenna range is versatile and future proof. The MiMo series has two DC grounded radiating elements, in versions with a GPS module it is protected by an integrated gas discharge surge arrestor.

Housed in a high impact, flame retardant Polycarbonate housing, the MiMo Rooftop Antenna is weatherproof and environmentally sealed to IP67, ensuring that the antenna's performance is never compromised.

Technical Features

- Covers all LTE, WiFi & WiMAX frequencies used worldwide, including GSM-R, Cellular 700-6000MHz
- 2x Elements (700MHz to 6GHz)
- Optional active GPS antenna with built in surge arrestor
- Compliant with rail standards, EN45545, EN50155, EN61373 & EN50121
- Housing Polycarbonate 1000 PEI & Aluminium base
- · Industry standard 4 hole mount
- DC Grounded Elements
- Defined isolation and Correlation

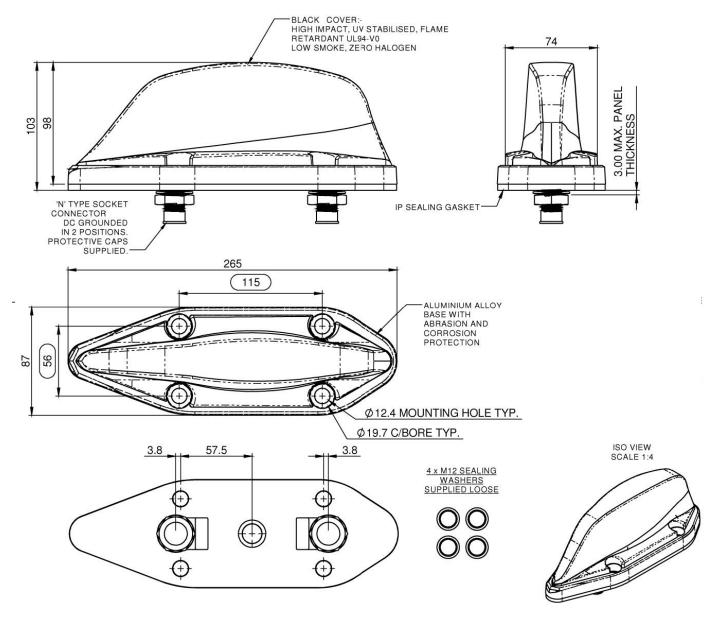
Rated IP67 (When installed according to the installation instructions) Applications

- High speed trains & locomotives
- Trams
- Buses / coaches
- Mass transit systems
- Heavy duty machinery (quarry trucks etc.)

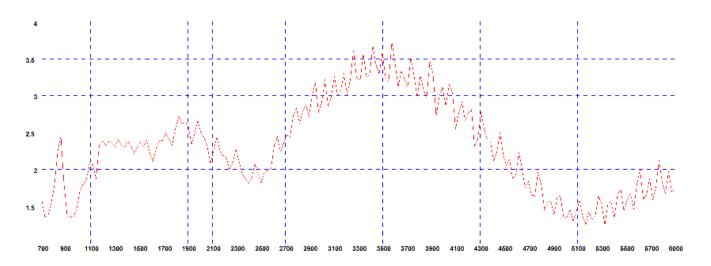
Ordering Information

ſ	MiMo Rooftop Antenna without GPS	1-2823591-1





Typical VSWR*

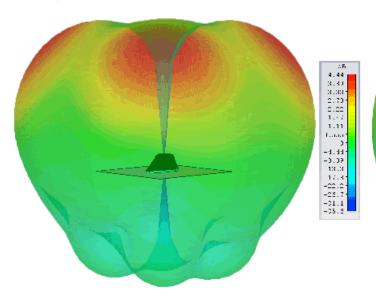


 $^{^{*}}$ Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3') of low loss cable.

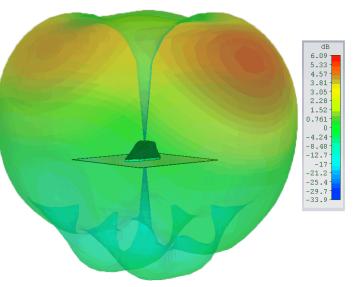


Typical 3D pattern - 700MHz

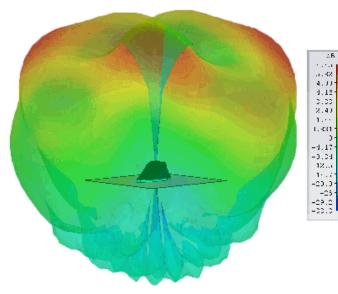
Typical 3D pattern - 900MHz



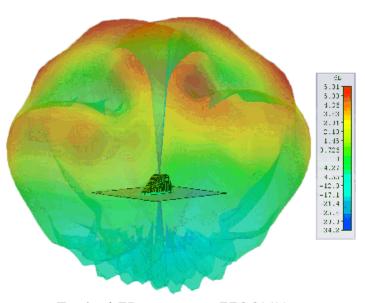
Typical 3D pattern - 1800MHz



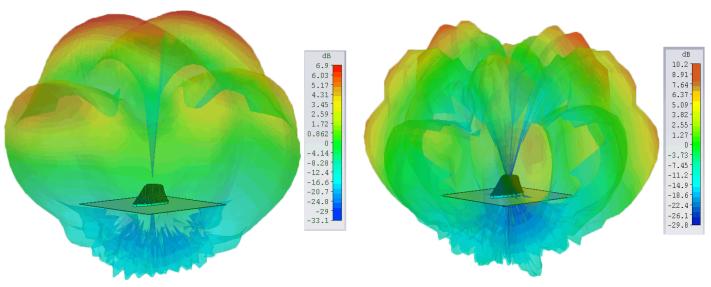
Typical 3D pattern - 2100MHz



Typical 3D pattern - 2500MHz



Typical 3D pattern - 5500MHz



3D patterns simulated with both elements fed on a 600 x 600mm (2' x 2') ground plane without cable

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Electrical Data				
requency Range (MHz)		2 X 698-960 / 1700-6000 MHz		
Peak Gain Isotropic**	698-960	6dBi		
	1710-2700	6dBi		
	4.9-6GHz	10dBi		
Polarisation		Vertical		
Typical VSWR*		<2.5:1		
Pattern		Omni-directional		
Impedance		50 Ω		
Max Input Power (W)		60		
Protected by overvoltage protection for		27.5 kV AC, 3.8 kV DC; 40 kA/0.1		
Mechanical Data				
Dimensions	Height (N/inc pad)	98mm (3.86")		
	Width	87mm (3.42")		
	Length	265mm (10.4")		
Environmental Specifica	tion			
Operating Temp Radome Material Radome Flame Retardance Rating Base Material Sealing		-50°C/ +80°C (-58°F / +176°F)		
		Polycarbonate 1000		
		V0 (UL94)		
		Cast Aluminium		
		IP67 (When installed according to the installation instructions)		
Approvals Data				
Regulatory Approvals		EN50155:2007 (Dry heat & Cooling) EN61373:2010 / EN50155:2007 (Shock & Vibration) EN 45545:2013 (Fire & Smoke)		
Mounting Data				
ixing		4x mounting holes to suit M12 bolts		
Termination Data				
Termination	Comms	2 x N (female) - DC grounded		

^{**} Measured on a 600 x 600mm (2' x 2') ground plane with both elements fed and without cable.



 $^{^{*}}$ Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3') of low loss cable.