

Dual Function Adhesive Antenna

193383

PANORAMA ANTENNAS



- Adhesive Mount
- 2G/3G/4G and GPS/GNSS
- Various Rail approvals

The 193383 antenna offers GPS/GNSS and 2G/3G/4G connectivity for vehicle communications and telematics. The housing incorporates two separate antennas one for Cellular/LTE, and a GPS/GLONASS/BEIDOU antenna with a 26dB gain LNA and advanced filtering to combat noise.

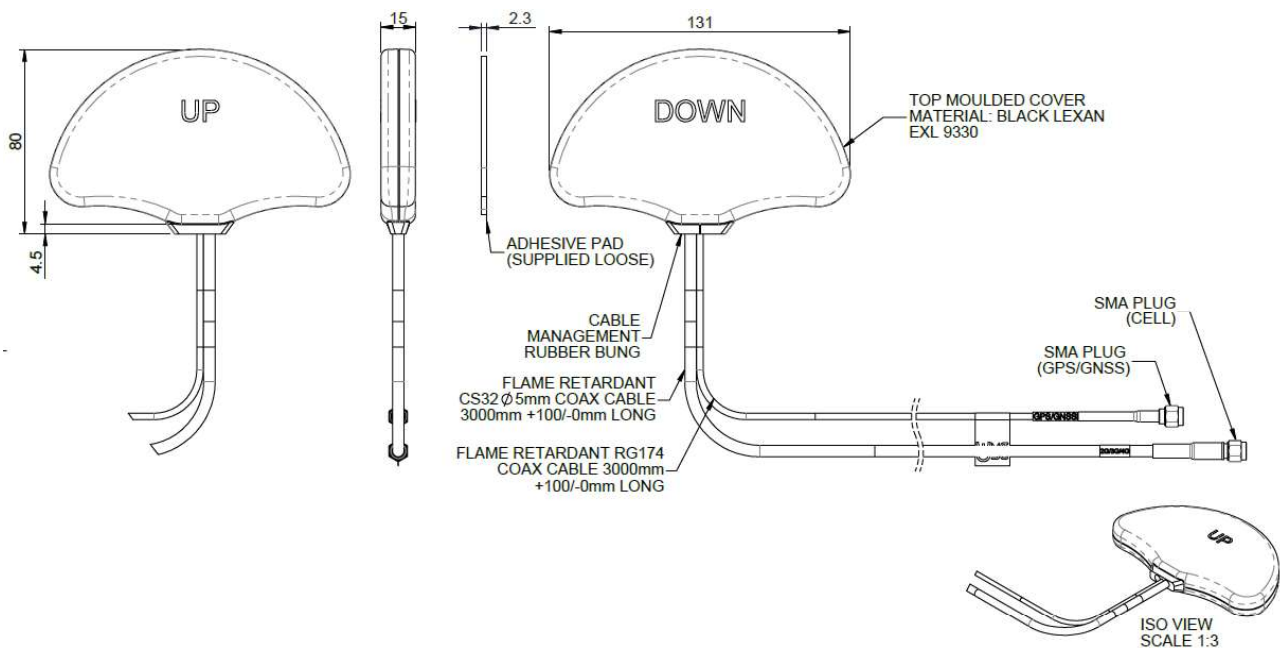
Adapted for rail environments the antenna features a flame retardant housing and coaxial cables approved to EN45545-2 HL3.

The antenna offers easy and quick installation on or under a plastic panel or on the windshield of a vehicle using the supplied adhesive pad*

* Performance may change depending on mounting position/surface. The product is not suitable for mounting on conductive surfaces or metalized windows.

Technical Drawing

193383 Shown



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Product Data

Part No.		193383
Electrical Data		
Frequency Range (MHz)	Element 1	698-960 / 1710-3800
	Element 2	1562-1612
Typical VSWR*	Element 1	<2.51
Peak Gain: Isotropic †	Element 1: 698-960MHz	4dBi
	Element 1: 1710-2700MHz	5dBi
	Element 1: 3300-3800MHz	3dBi
Nominal Pattern	Omni-directional	
Nominal Impedance	50Ω	
Max input power (W)	5	
GPS/GNSS Data		
Frequency Range (MHz)	1562-1612MHz	
LNA Gain (dB)	26	
Polarisation	Right Hand Circular	
Operating Voltage	3-5VDC (Fed via Coax)	
Current	Typical 15mA	
Rail Approvals **	EN 50121-3-2: 2016 A1: 2019	
Mechanical Data		
Dimensions (mm)	Height	15 (0.6")
	Length	131 (5.16")
	Depth	84.5 (3.33")
Operating Temp (°C)	-25° / +70°C (-25° / 158°F)	
Material	Lexan EXL 9330	
Colour	Black	
Typical Weight (g)	211	
Mechanical Approvals	EN 50155:2021 13.4.4, 13.4.5 & 13.4.8 OT3	
Mounting Data		
Fixing	Adhesive pad	
Cable Data		
Element 1: Cell	Cable Type	CS32 (Meets EN45545-2 HL3)
	Diameter (mm)	5 (0.2")
	Length (m)	3 (9.8')
	Termination	SMA Plug
Element 2: GPS/GNSS	Cable Type	FR RG174 (Meets EN45545-2 HL3)
	Diameter (mm)	2.8 (0.1")
	Length (m)	3 (9.8')
	Termination	SMA Plug

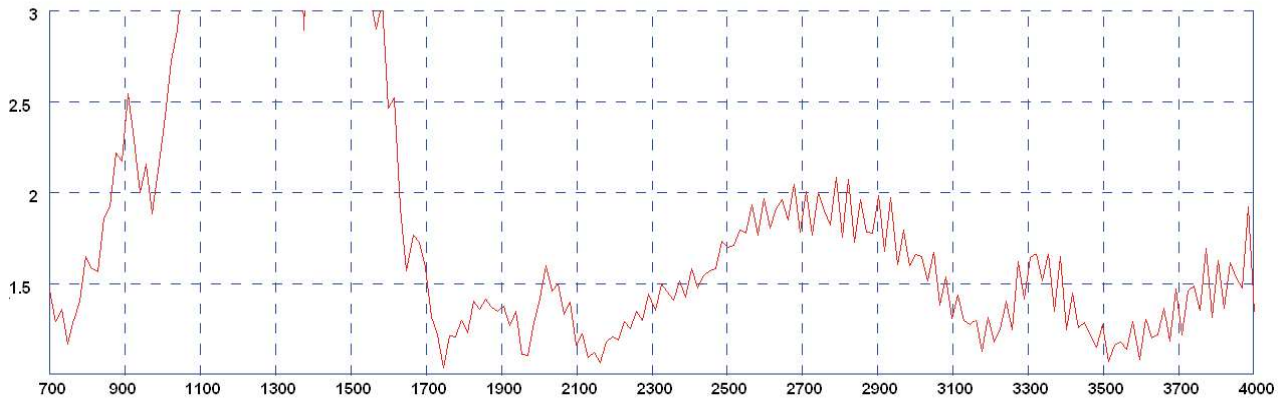
* Typical VSWR measured on perspex sheet with 3m (9'10") of Cable

** Tested installed in a different antenna platform

† Peak gain measured in Rayzone 1800 chamber across all polarisations with 0.5m (1.5') CS32 cable

Electrical Data - Cell

Typical VSWR - Element 1*



*VSWR measured mounted on a glass sheet with 3m (9'10") of cable

Typical Efficiency - Element 1*



*Efficiency measured in free space in Rayzone 1800 Chamber with 0.5m (1.5') of cable

Typical Swept Peak Gain - Element 1*



*Swept peak gain measured in free space in Rayzone 1800 Chamber with 0.5m (1.5') of cable