

Cellular, Wifi, GPS/GNSS Telematics Antenna

- Dashboard or Windshield Mount
- Cellular, WIFI and GPS/GNSS
- Suitable for M3 Category vehicles (UNECE Reg 118)
- Available with SMA or FAKRA connectors



The GPSCO(F)-7-27-24-58 range of telematics antennas offers a "3 in 1" product for vehicle communications and telematics. The housing incorporates antennas for Cellular/LTE, Dual Band WiFi, and GPS/GLONASS/BEIDOU with a 26dB gain LNA.

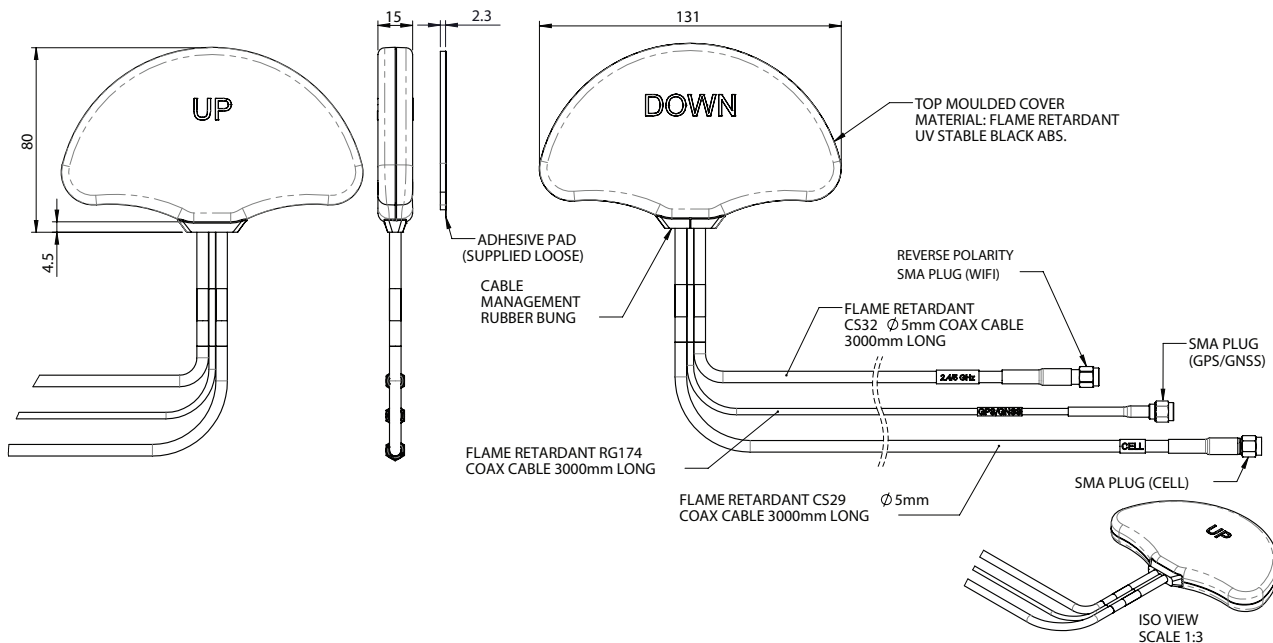
Meeting the requirements of UNECE Regulation R 118, the antenna is suitable for use in M3 Category vehicles (Transportation). The antenna housing is UV resistant and flame retardant, while the 3m length integrated coax cables are flame retardant, with low smoke specification.

The antenna offers easy and quick installation on/under the dashboard or on the windshield using the supplied acrylic 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

GPSCO-7-27-24-58 Shown



Tri-Function Telematics Antenna

GPSCO[F]-7-27-24-58

PANORAMA ANTENNAS

Product Data

Part No.

GPSCO-7-27-24-58

GPSCOF-7-27-24-58

Electrical Data

Frequency Range (MHz)	Element 1	698-960 / 1710-3800
	Element 2	2.4/4.9-6.0 GHz
	Element 3	1562-1612MHz
Peak Gain: Isotropic †	Element 1: 890-960MHz	1.5dBi
	Element 1: 1710-2170MHz	4.5dBi
	Element 1: 2500-3800MHz	4.5dBi
	Element 2: 2.4GHz	6dBi
	Element 2: 4.9-6.0GHz	7dBi
Pattern	Omni-directional	
Nominal Impedance	50Ω	
Max input power (W)	20	

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

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

Element 1: Cell	Cable Type	CS29 (Meets UN118.01)	
	Diameter (mm)	5 (0.2")	
	Length (m)	3 (9.8')	
	Termination	SMA Plug	Fakra D Jack (Bordeaux)
Element 2: Wifi	Cable Type	CS32 (Meets UN118.01)	
	Diameter (mm)	5 (0.2")	
	Length (m)	3 (9.8')	
	Termination	SMA Plug (Rev Pol)	FAKRA I Jack (Beige)
Element 3: GPS/GNSS	Cable Type	LMR-100A-FR (Meets UN118.01)	
	Diameter (mm)	2.8 (0.1")	
	Length (m)	3 (9.8')	
	Termination	SMA Plug	FAKRA C Jack (Blue)

† Peak gain does not include cable attenuation

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom
T: +44 (0)20 8877 4444 | F: +44 (0)20 8877 4477
E: sales@panorama-antennas.com
W: www.panorama-antennas.com

GPSCO-7-27-24-58 29/04/2021 V1

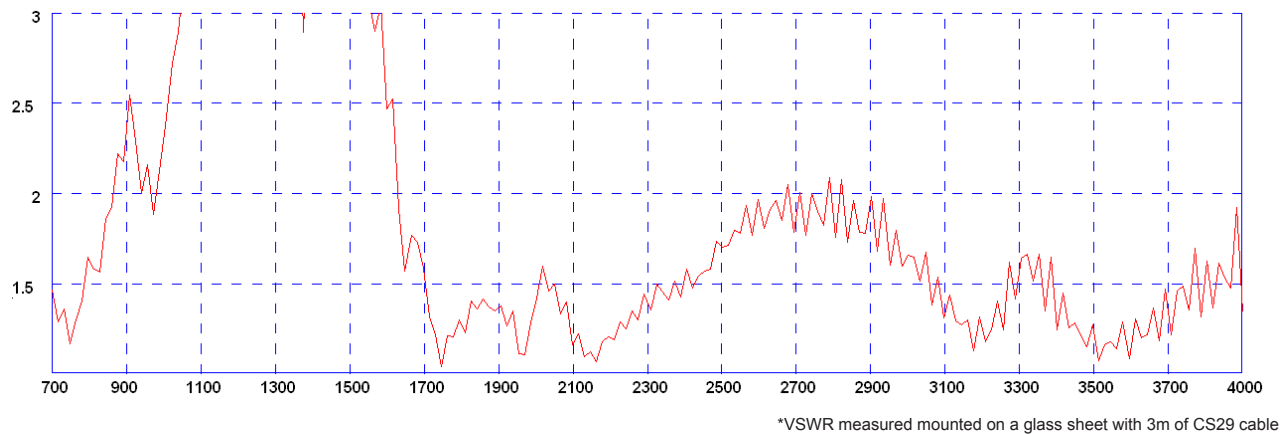
Page 2

Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice. Copyright © Panorama Antennas Ltd. All rights reserved.

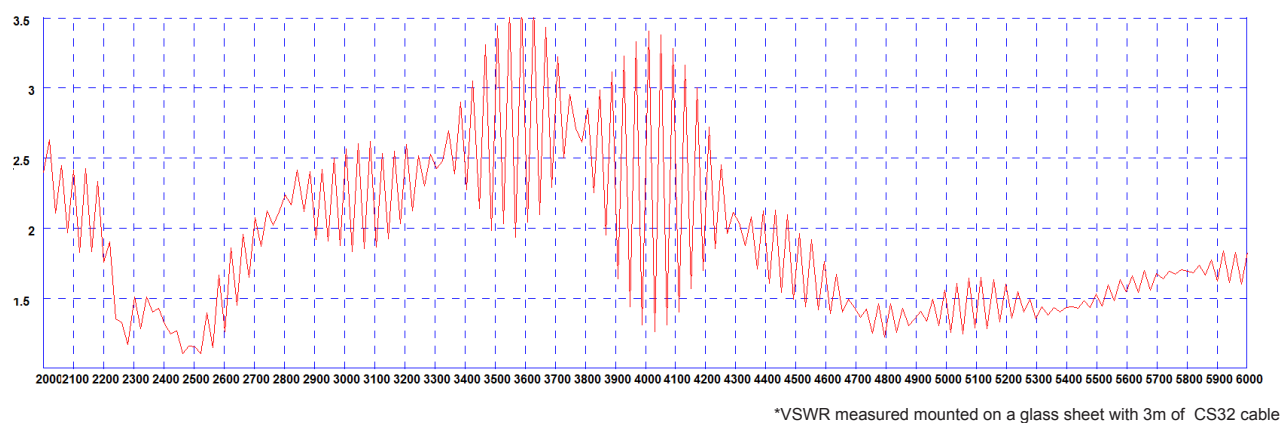
www.lucom.de

Electrical Data - Cell

Typical VSWR - Element 1*

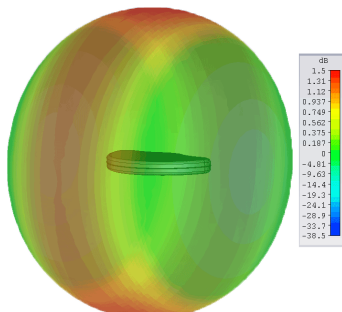


Typical VSWR - Element 2*

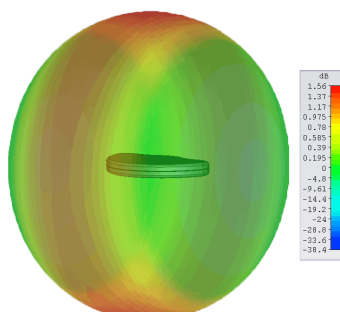


3D Patterns - Cell

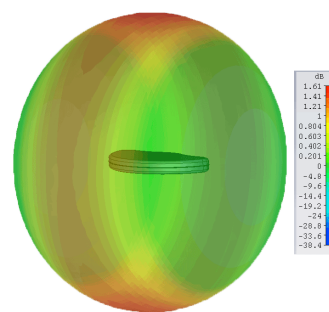
Element 1: Typical 3D Pattern (700MHz)



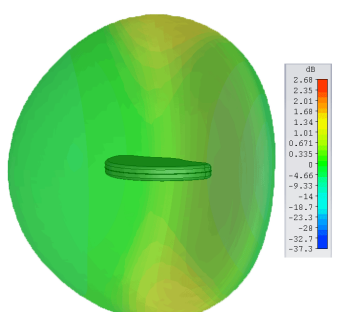
Element 1: Typical 3D Pattern (800MHz)



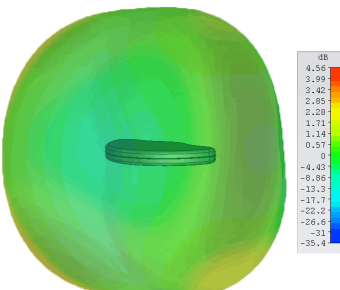
Element 1: Typical 3D Pattern (900MHz)



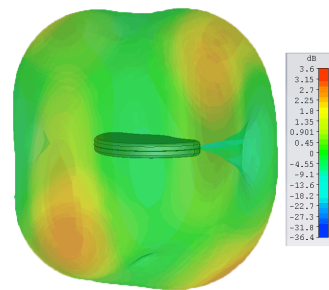
Element 1: Typical 3D Pattern (1800MHz)



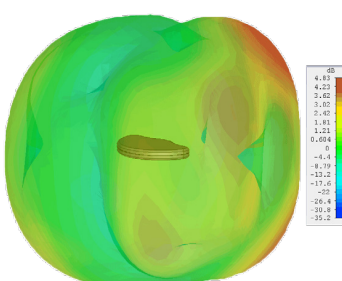
Element 1: Typical 3D Pattern (2100MHz)



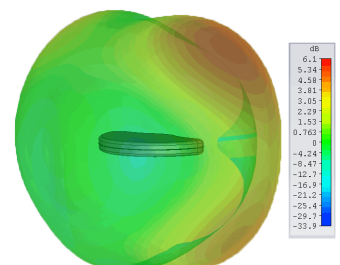
Element 1: Typical 3D Pattern (2600MHz)



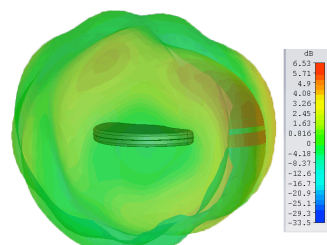
Element 1: Typical 3D Pattern (3700MHz)



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. Element 3 pattern measured in free space.

Element 3: Typical E Plane Pattern (1602MHz)

