Tri-Function Telematics Antenna GPSCO[F]-7-27-24-58

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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.

131 2.3 DOWN TOP MOULDED COVER UP MATERIAL: FLAME RETARDANT UV STABLE BLACK ABS. 80 REVERSE POLARITY 5 SMA PLUG (WIFI) CABLE MANAGEMENT FLAME RETARDANT CS32 Ø5mm COAX CABLE 3000mm LONG RUBBER BUNG SMA PLUG (GPS/GNSS) 181 CELL FLAME RETARDANT RG174 COAX CABLE 3000mm LONG SMA PLUG (CELL) FLAME RETARDANT CS29 Ø5mm COAX CABLE 3000mm LONG c_{∞} ISO VIEW SCALE 1:3

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Technical Drawing

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.

GPSCO-7-27-24-58 Shown

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

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Product Data

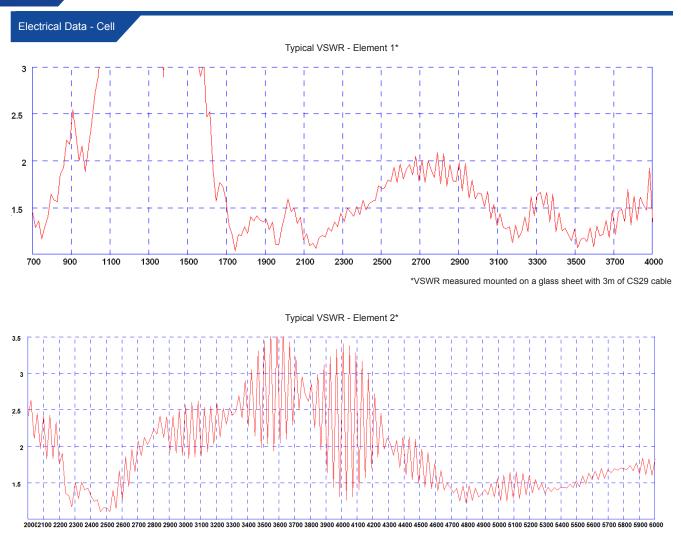
Part No.		GPSCO-7-27-24-58	GPSCOF-7-27-24-58	
ilectricaL Data		GF3CU-1-21-24-30	GF3COF-7-27-24-36	
	Element 1	698-960 / 171	0-3800	
Frequency Range (MHz)	Element 2		2.4/4.9-6.0 GHz	
	Element 3		1562-1612MHz	
Peak Gain: Isotropic ŧ	Element 1: 890-960MHz		1.5dBi	
	Element 1: 1710-2170MHz		4.5dBi	
	Element 1: 2500-3800MHz		4.5dBi	
	Element 2: 2.4GHz		6dBi	
			7dBi	
ttern	Element 2: 4.9-6.0GHz		ional	
		Omni-directional 50Ω		
Nominal Impedance		50Ω 20		
ix input power (V PS/GNSS Data	· · · · · · · · · · · · · · · · · · ·	20		
	MHz)	1562-1612	MHz	
Frequency Range (MHz) .NA Gain (dB)		26		
Polarisation		Right Hand Circular		
operating Voltage		3-5VDC (Fed via Coax)		
urrent		Typical 15mA		
echanical Data			····	
ananioar Bata	Height	15 (0.6")	
Dimensions (mm)	Length	131 (5.16")		
	Depth	84.5 (3.33")		
Departing Temp (°C)		-30° / +70°C (-30° / 158°F)		
Vaterial		UV Stable Flame Retardant ABS Plastic		
Colour		Black		
ypical Weight (g)		330		
ounting Data				
king		Acrylic adhesi	ve pad	
ible Data				
	Cable Type	CS29 (Meets UN118.01)		
Element 1: Cell	Diameter (mm)	5 (0.2")		
	Length (m)	3 (9.8')		
	Termination	SMA Plug	Fakra D Jack (Bordeau	
Element 2: Wifi	Cable Type	CS32 (Meets U		
	Diameter (mm)			
	Length (m)	3 (9.8')	5 (0.2") 2 (0.8')	
	Termination	SMA Plug (Rev Pol)	FAKRA I Jack (Beige	
Element 3: GPS/GN	Cable Type			
			LMR-100A-FR (Meets UN118.01)	
			2.8 (0.1")	
	Length (m)	3 (9.8')		
	Termination	SMA Plug	FAKRA C Jack (Blue)	

+ Peak gain does not include cable attenuation

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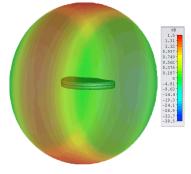
*VSWR measured mounted on a glass sheet with 3m of CS32 cable

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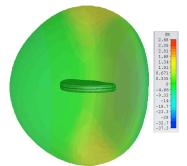
GPSCO[F]-7-27-24-58

3D Patterns - Cell

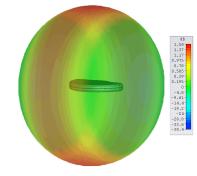
Element 1: Typical 3D Pattern (700MHz)



Element 1: Typical 3D Pattern (1800MHz)

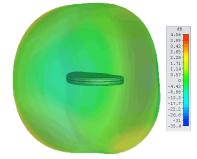


Element 1: Typical 3D Pattern (3700MHz)



Element 1: Typical 3D Pattern (800MHz)

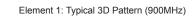
Element 1: Typical 3D Pattern (2100MHz)

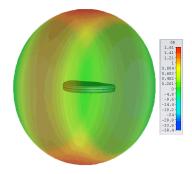


Element 2: Typical 3D Pattern (2.4GHz)

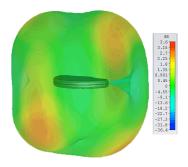
2.29 1.53 0.763

-4.24 -8.47 -12.7 -16.9 -21.2 -25.4 -29.7

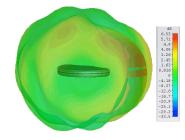


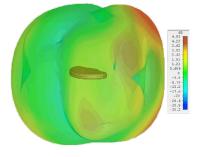


Element 1: Typical 3D Pattern (2600MHz)



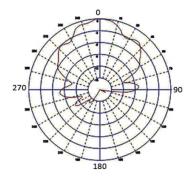
Element 2: Typical 3D Pattern (5.4GHz)





+ 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)



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