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

Tri-Function Telematics Antenna

28/04/2016 v.2



## 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

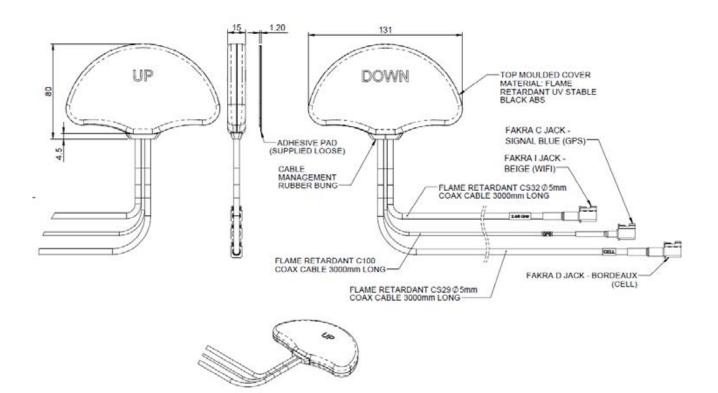
The GPSCO(F)-7-27-24-58 range of telematics antennas offer a "3 in 1" product for vehicle communications and telematics. The housing incorporates antennas for Cellular/LTE, Dual Band WiFi and GPS/GLONASS/BEIDOU with a 26dB gain LNA.

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, low smoke specification.

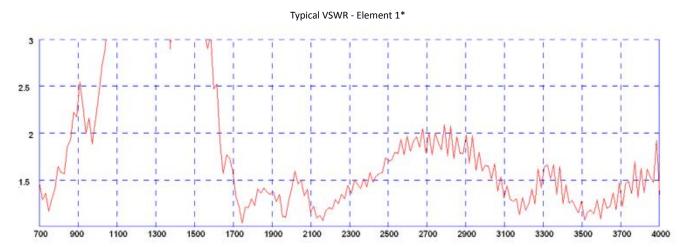
The antenna offers easy and quick installation on/under the dashboard or on the windshield using the supplied acrylic adhesive pad \*

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

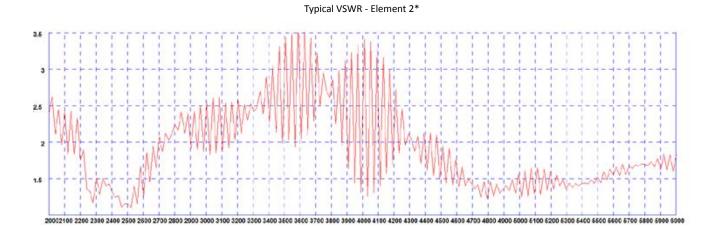
Technical Drawing GPSCOF-7-27-24-58 shown



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 G	2.4/4.9-6.0 GHz	
	Element 3	1562-1612M	1562-1612MHz	
Peak Gain: Isotropic +	Element 1: 890-960MHz	1.5dBi	1.5dBi	
	Element 1: 1710-2170MHz	4.5dBi	4.5dBi	
	Element 1: 2500-3800MHz	4.5dBi	4.5dBi	
	Element 2: 2.4GHz	6dBi	6dBi	
	Element 2: 4.9-6.0GHz	7dBi		
Pattern		Omni-directional		
Nominal Impedance		50Ω	50Ω	
Max input power (W)		20	20	
GPS/GNSS Data				
Frequency Range (MHz)		1562-1612MHz		
LNA Gain (dB)		26	26	
Polarisation		Right Hand Circ	Right Hand Circular	
Operating Voltage		3-5VDC (Fed via	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")		
	S Length (m)	3 (9.8')		
	Termination	SMA Plug	FAKRA C Jack (Blue)	
	Termination	JIVIA Flug	TAKINA C Jack (Dide)	

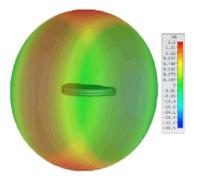


\*VSWR measured mounted on a glass sheet with 3m of CS29 cable

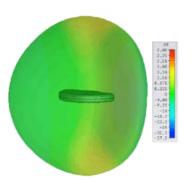


\*VSWR measured mounted on a glass sheet with 3m of CS32 cable

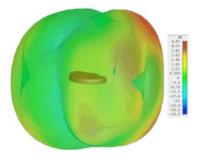
Element 1: Typical 3D Pattern (700MHz)



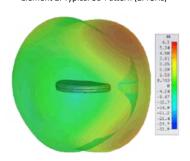
Element 1: Typical 3D Pattern (1800MHz)



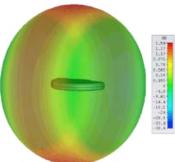
Element 1: Typical 3D Pattern (3700MHz)



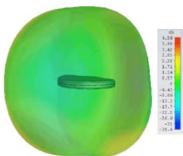
Element 2: Typical 3D Pattern (2.4GHz)

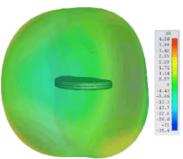


Element 1: Typical 3D Pattern (800MHz)

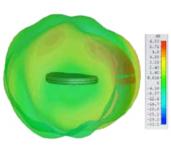


Element 1: Typical 3D Pattern (2100MHz)

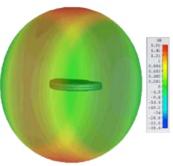




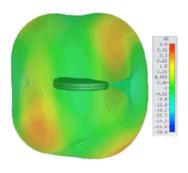
Element 2: Typical 3D Pattern (5.4GHz)



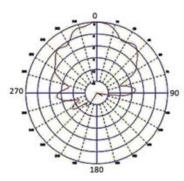
Element 1: Typical 3D Pattern (900MHz)



Element 1: Typical 3D Pattern (2600MHz)



Element 3: Typical E Plane Pattern (1602MHz)



+ Element 1 &2 Patterns simulated in CST Microwave Studio in free space excluding cable loss. Element 3 pattern measured in free space.



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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.