LTE+GNSS Puck Antenna

GPSC-7-27 Series

LTE + GPS/GNSS Puck Antenna

- Mount on or under dashboard or panel
- Cellular/LTE and GPS/GNSS
- Suitable for telematics or IOT applications

The GPSC-7-27 range of telematics antennas offer a 2-in-1 product for vehicle communications and telematics. The housing incorporates antennas for Cellular/LTE and GPS/GLONASS/BEIDOU with a 26dB gain LNA.

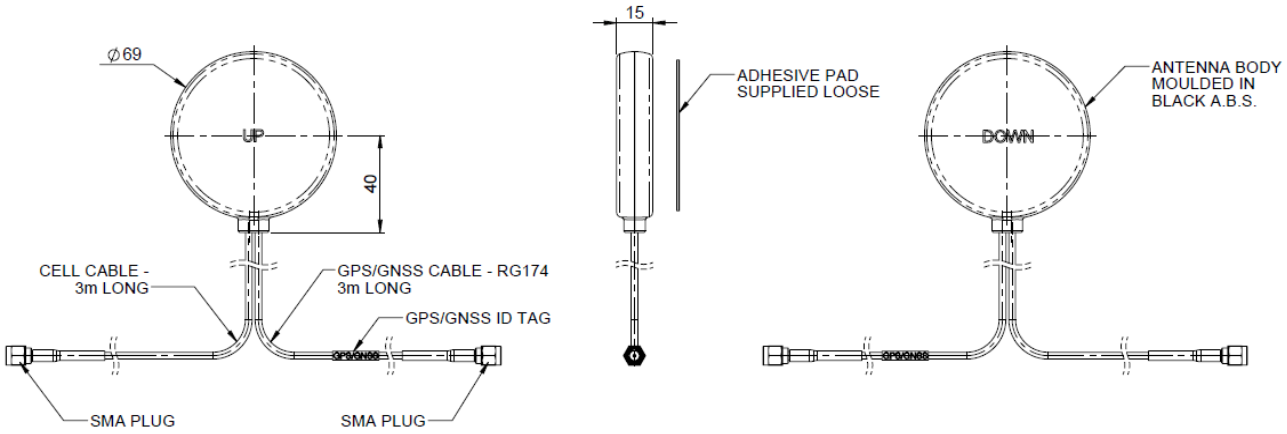
The antenna housing is UV resistant, while the 3m length integrated coax cables are flame retardant, low smoke specification.

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 should not be mounted on conductive surfaces or metalized glass

Technical Drawing

GPSC-7-27-3SP Shown



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GPSC-7-27 Series

PANORAMA ANTENNAS

Product Data

Part No.			
		GPSC-7-27-3SP	GPSC-7-27-3FAKRA
Electrical Data			
Frequency Range (MHz)	Element 1	698-960 / 1710-2700	
	Element 2	1559-1612MHz	
Peak Gain: Isotropic ǂ	Element 1: 698-960MHz	2dBi	
	Element 1: 1710-2170MHz	2dBi	
	Element 1: 2500-2700MHz	4dBi	
Pattern		Omni-directional	
Nominal Impedance		50Ω	
Max input power (W)		5	
GPS/GNSS Data			
Frequency Range (MHz)		1559-1612MHz	
LNA Gain (dB)		30	
Polarisation		Right Hand Circular	
Operating Voltage		3-5VDC (Fed via Coax)	
Current		Typical 15mA	
Mechanical Data			
Dimensions (mm)	Height	15 (0.6")	
	Length	74.5 (2.9")	
	Diameter	69 (2.7")	
Operating Temp (°C)		-30° / +70°C (-30° / 158°F)	
Material		UV Stable ABS Plastic	
Colour		Black	
Mounting Data			
Fixing		Acrylic adhesive pad	
Cable Data			
Element 1: Cell	Cable Type	FR RG174	
	Diameter (mm)	2.8 (0.1")	
	Length (m)	3 (9.8')	
	Termination	SMA Plug	FAKRA D Jack
Element 2: GPS/GNSS	Cable Type	FR RG174	
	Diameter (mm)	2.8 (0.1")	
	Length (m)	3 (9.8')	
	Termination	SMA Plug	FAKRA C Jack

ǂ Peak gain does not include cable loss

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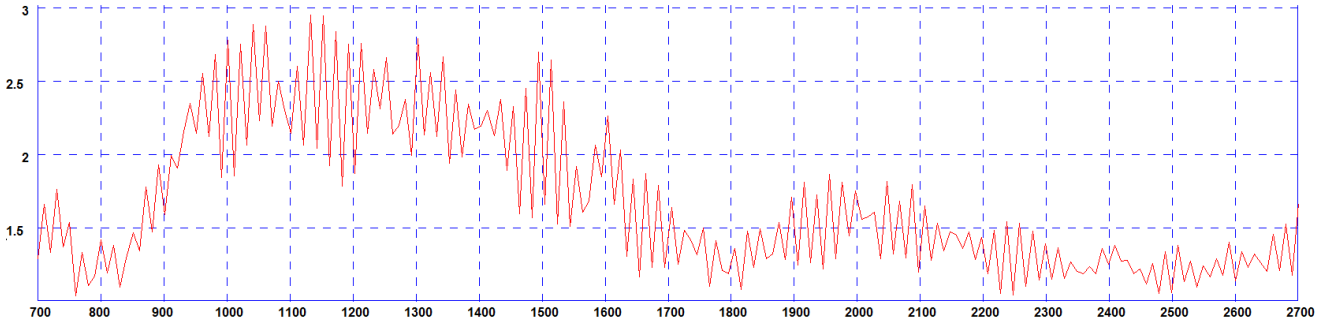
VSWR

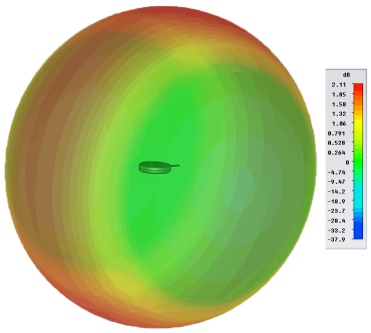
Typical VSWR - Element 1*



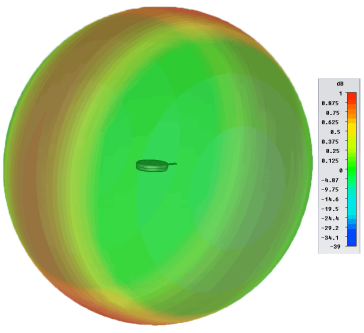
*VSWR measured in free space with 3m (10') of RG174 cable

Patterns

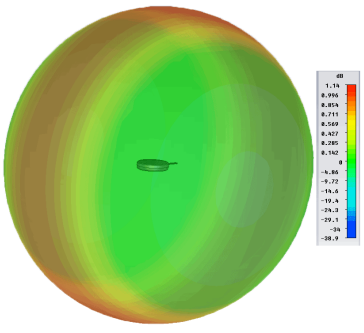
Element 1: Typical 3D Pattern (700MHz)



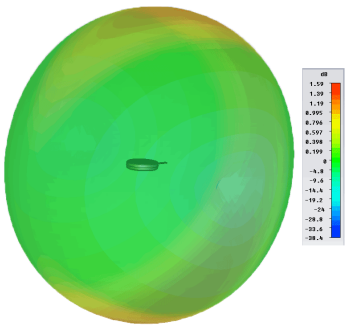
Element 1: Typical 3D Pattern (800MHz)



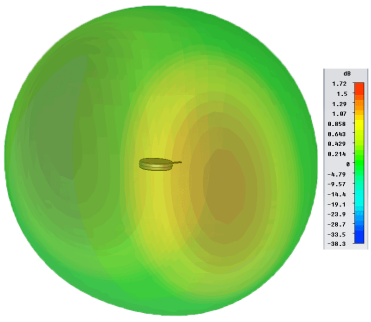
Element 1: Typical 3D Pattern (900MHz)



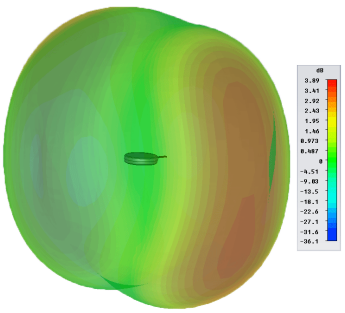
Element 1: Typical 3D Pattern (1800MHz)



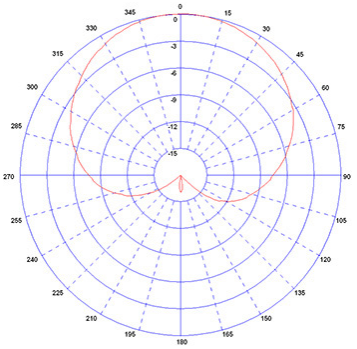
Element 1: Typical 3D Pattern (2100MHz)



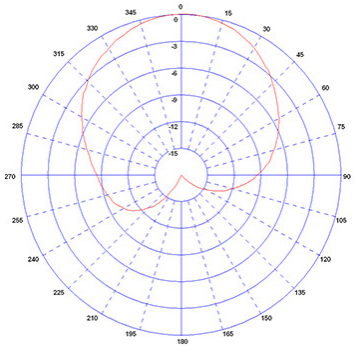
Element 1: Typical 3D Pattern (2600MHz)



Element 2: Typical E Plane Pattern (1575MHz)



Element 2: Typical E Plane Pattern (1602MHz)



‡ Element 1 patterns simulated in CST Microwave Studio in free space excluding cable loss. Element 2 patterns measured in free space.

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