



## LTE + GPS/GNSS Puck Antenna

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

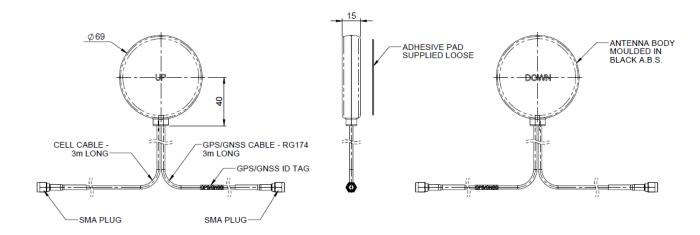
The GPSC-7-27 range of telematics antennas offer a 2-in-1 product for vehicle communications and telematics. The housing incorporates antennas for Cellular/LTE and GPS/GLONASS/BEIDOU with a 26dB gain LNA.

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  $^{\star}$ 

\* 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



## LTE+GNSS Puck Antenna

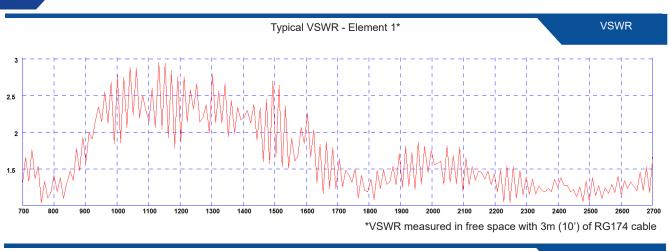
GPSC-7-27 Series

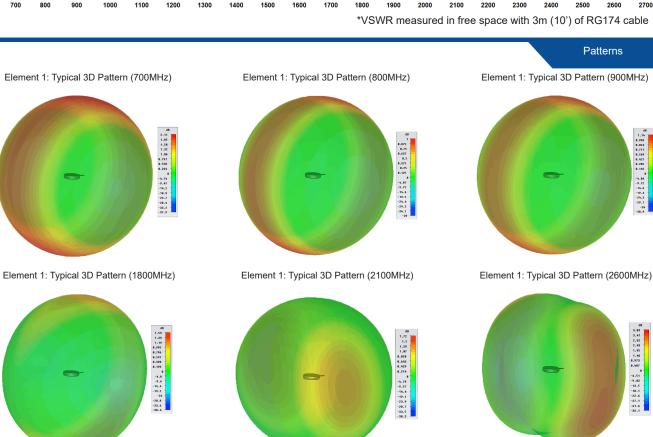


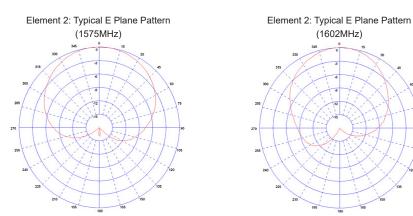
**Product Data** 

Pactical Data   Pactical Da				
Element 2   Element 3   Element 4   Element 5   Element 6   Element 6   Element 7   Element 7   Element 8   Element 8   Element 8   Element 9   Element 1   Element 2   Element 1   Element 2   Element 2   Element 3   Element 1   Element 3   Ele	Part No.			
Element 1			GPSC-7-27-3SP	GPSC-7-27-3FAKRA
Min   2	Electrical Data			
Peak Gain:   Element 1: 698-960MHz   2dBi	Frequency Range (MHz)	Element 1	698-960 / 1710-2700	
Feak Lain: sotropic   Element 1: 2500-2700MHz		Element 2	1559-1612MHz	
Pattern         4dBi           Pattern         50Ω           Nominal Impedance         50Ω           Max input power (W)         5           SPS/SNS Dats           Frequency Range (MHz)         1559-1612MHz           JAN Gain (dB)         30           Potarisation         Right Hand Circular           Operating Voltage         3-5VDC (Fed via Coax)           Current         Typical 15mA           Mechanical Date           Methods           Operating Pemp (**)         15 (0.6*)           Diameter         69 (2.7*)           Operating Temp (**)         30* (+70°C (-30° / 158°F)           Material         UV Stable ABS Plastic           Colour         Black           Mounting Date           Eiking         Act ylic adhesive pad           Cable Type           Eiking         FR RG174           Diameter (mm)         2.8 (0.1*)           Length (m)         3 (9.8*)           Termination         SMA Plug         FAKRA D Jack           Element 1: GPB/GRS6         Cable Type         FR RG174           Diameter (mm)         2.8 (0.1*)           Length (m)	Peak Gain: Isotropic <del>t</del>	Element 1: 698-960MHz	2dBi	
Pattern		Element 1: 1710-2170MHz	2dBi	
Nominal Impedance		Element 1: 2500-2700MHz	4dBi	
Max input power (W) 5    SPS/SINSS Data	Pattern		Omni-directional	
### Page	Nominal Impedance		50Ω	
Frequency Range (MHz)  AN Gain (dB)  Polarisation Right Hand Circular  Operating Voltage Current Typical 15mA  Mechanical Data  Mechanical Da	Max input power (W)		5	
### Page	GPS/GNSS Data			
Polarisation	Frequency Range (MHz)		1559-1612MHz	
Course	LNA Gain (dB)		30	
Current         Typical 15mA           Mechanical Data           Dimensions (mm)         Height         15 (0.6°)           Diameter         69 (2.7°)           Diperating Temp (°C)         -30° / +70° C (-30° / 158°F)           Waterial         UV Stable ABS Plastic           Colour         Black           Mounting Data           Fixing         Acrylic adhesive pad           Cable Data           Cable Type         FR RG174           Cable Type         FR RG174           Length (m)         3 (9.8°)           FAKRA D Jack           Cable Type         FR RG174           Element 2: GPS/GN 5         Diameter (mm)         2.8 (0.1°)           Element 2: GPS/GN 5         Diameter (mm)         2.8 (0.1°)           Length (m)         2.8 (0.1°)           Length (m)         2.8 (0.1°)           Length (m)         2.8 (0.1°)           Length (m)         3 (9.8°)	Polarisation		Right Hand Circular	
Height	Operating Voltage		3-5VDC (Fed via Coax)	
Height	Current		Typical 15mA	
Length   Diameter   Diameter   Polameter   Polameter	Mechanical Data			
Diameter   69 (2.7")	Dimensions (mm)	Height	15 (0.6")	
Coperating Temp (°C)         -30° / +70°C (-30° / 158°F)           Material         UV Stable ABS Plastic           Colour         Black           Mounting Data           Fixing         Acrylic adhesive pad           Cable Data           FR RG174           Diameter (mm)         2.8 (0.1")           Length (m)         SMA Plug         FAKRA D Jack           Element 2: GPS/GNSS         Cable Type         FR RG174           Diameter (mm)         2.8 (0.1")           Length (m)         3 (9.8')		Length	74.5 (2.9")	
Material         UV Stable ABS Plastic           Colour         Black           Mounting Data         Fixing           Acrylic adhesive pad           Cable Data           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')		Diameter	69 (2.7")	
Colour         Black           Mounting Data         Acrylic adhesive pad           Cable Data         FR RG174           Black           Cable Type         FR RG174           Length (m)         3 ( 9.8')           Termination         SMA Plug         FAKRA D Jack           Element 2: GPS/GNSS         Cable Type         FR RG174           Length (m)         2.8 (0.1")           Length (m)         3 ( 9.8')	Operating Temp (°C)		-30° / +70°C (-30° / 158°F)	
Mounting Data	Material		UV Stable ABS Plastic	
Fixing         Acrylic adhesive pad           Cable Data           Element 1: Cell           Diameter (mm)         2.8 (0.1")           Length (m)         3 ( 9.8')           Termination         SMA Plug         FAKRA D Jack           Cable Type         FR RG174           Diameter (mm)         2.8 (0.1")           Length (m)         3 ( 9.8')	Colour		Black	
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           Cable Type         FR RG174           Diameter (mm)         2.8 (0.1")           Length (m)         3 (9.8')	Mounting Data			
Cable Type	Fixing		Acrylic adhesive pad	
Diameter (mm)   2.8 (0.1")     Length (m)   3 ( 9.8')     Termination   SMA Plug   FAKRA D Jack     Cable Type   FR RG174     Diameter (mm)   2.8 (0.1")     Length (m)   3 ( 9.8')	Cable Data			
Element 1: Cell         Length (m)         3 ( 9.8')           Termination         SMA Plug         FAKRA D Jack           Cable Type         FR RG174           Diameter (mm)         2.8 (0.1")           Length (m)         3 ( 9.8')	Element 1: Cell	Cable Type	FR RG174	
Length (m)       3 ( 9.8')         Termination       SMA Plug       FAKRA D Jack         Cable Type       FR RG174         Diameter (mm)       2.8 (0.1")         Length (m)       3 ( 9.8')		Diameter (mm)	2.8 (0.1")	
Cable Type FR RG174  Diameter (mm) 2.8 (0.1")  Length (m) 3 ( 9.8')		Length (m)	3 ( 9.8')	
Diameter (mm) 2.8 (0.1")  Length (m) 3 ( 9.8')		Termination	SMA Plug	FAKRA D Jack
Diameter (mm) 2.8 (0.1")  Length (m) 3 ( 9.8')	Element 2: GPS/GN	Cable Type	FR RG174	
Element 2: GPS/GNSS Length (m) 3 ( 9.8')		Diameter (mm)	2.8 (0.1")	
		NSS	·	
			·	•

<sup>+</sup> Peak gain does not include cable loss







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