

Datasheet

CELLULAR(2G/3G/4G) / GNSS(GPS/GLONASS) Antenna

CGN 7026 LP S
 Pt no.
920 626-001

- Combination antenna for positioning and data-services
- Terrestrial based transmission and satellite based positioning
- Embedded high performance LNA with dualfeed ceramic patch antenna and phase shift network for optimized cross polarization discrimination(XPD)
- Screw mounting on metallic and non metallic ground
- Designed for installation in harsh environment



Some technical optimization with minor effect to the overall performance of this product are still pending.
 This document will be updated according the finalization of the optimization measures without prior information.

Subject to alterations

Technical data

Dimensions (without rod)		124mm x 80mm x 31 mm
Weight	ca.	165 g
Temperature range		-40 - +85 °C / -40 - +185 °F
Protection class		IP6k9k (acc. ISO 20653)
CELLULAR(2G/3G/4G)		
Frequency range	LTE-LB: GSM 850: GSM 900: GSM 1800: GSM 1900: UMTS: LTE-HB:	698 - 862 MHz 824 - 894 MHz 880 - 960 MHz 1710 - 1880 MHz 1850 - 1990 MHz 1920 - 2170 MHz 2305 - 2690 MHz
Impedance		50 Ohm
VSWR		≤ 2,0
Gain		0 dBi ²⁾
Load capacity	max.	10 W pulsed acc. GSM standard
Diagnostic Resistor		10 kOhm
Cable type		RG 174
Cable length		200 ±30 mm
Connector		FAKRA male, Code D, bordeaux
GNSS(GPS/GLONASS)		
Frequency range	GPS: GLONASS:	1,57542 GHz ± 1,023 MHz, (L1-band) 1602,0 - 1614,94 MHz
Impedance		50 Ohm
VSWR		≤ 2,0
Gain		1 dBi ¹⁾
Amplification		27 ± 1 dB
Noise figure (50 Ohm)		≤ 2,2 dB
Voltage supply		3,0 - 5,5 VDC (remotely fed)
Current consumption	.	24 ±1 mA @ 5 V
Cable type		RG 174
Cable length		200 ±30 mm
Connector		FAKRA male, Code C, blue

¹⁾ dBi: referenced to an isotropic radiator, circular polarization

²⁾ dBi: referenced to an isotropic radiator

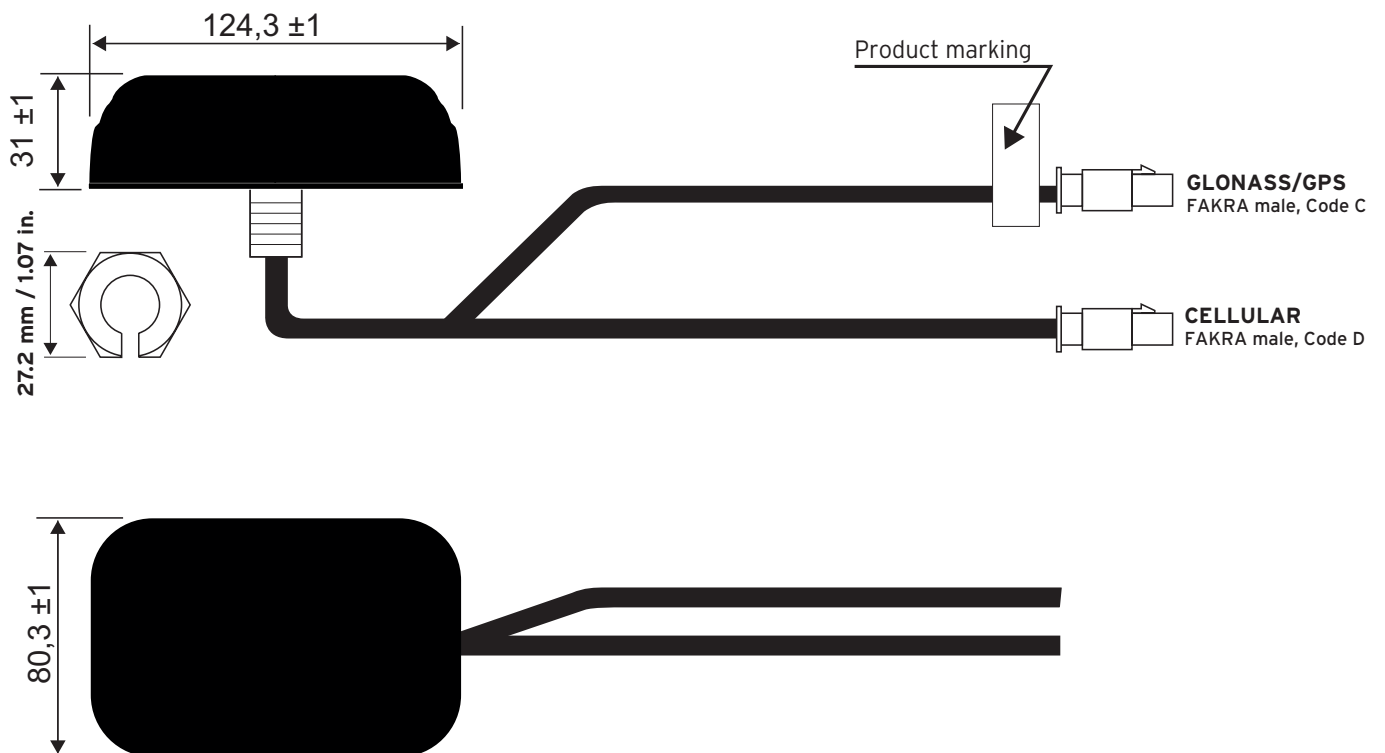
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Technical drawings

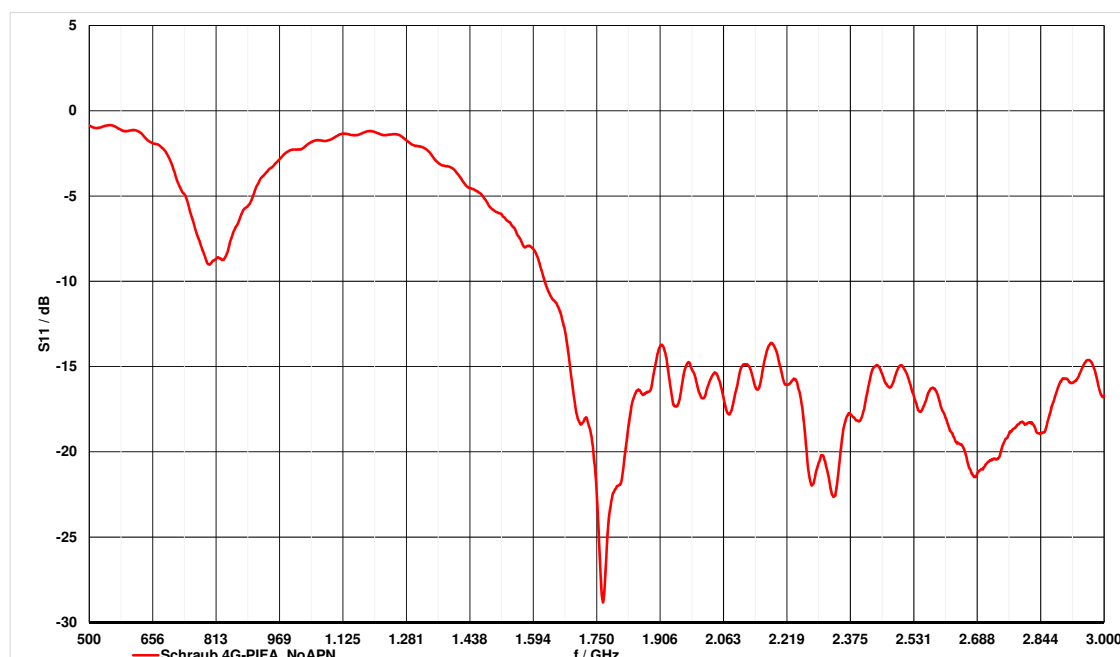


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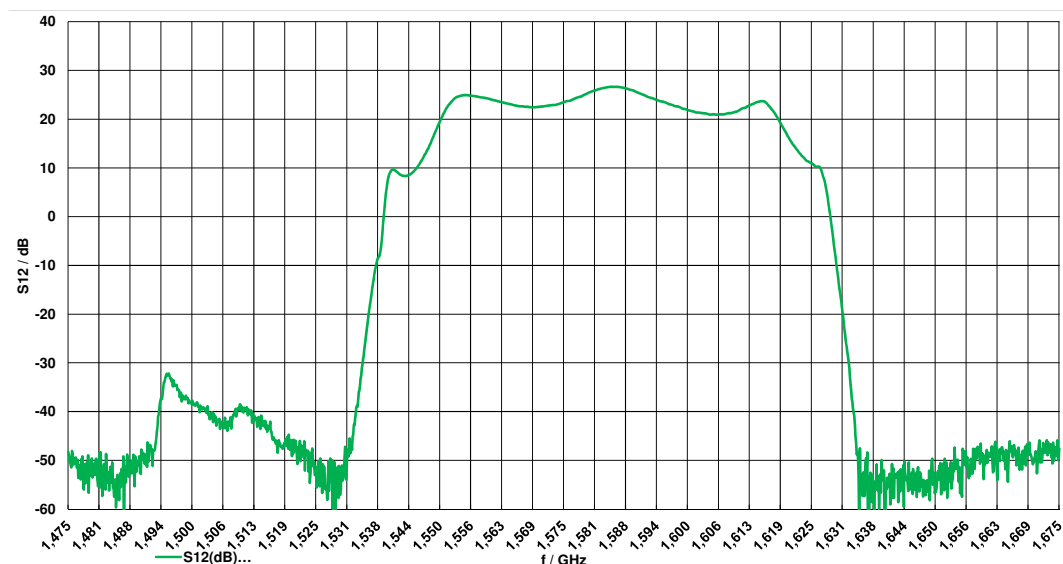
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Antenna diagrams

Typ. VSWR (S_{11}) CELLULAR bands



Typ. gain (S_{12}) GNSS-LNA



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Installation

