HIRSCHMANN MOBILITY

CELLULAR (2G/3G/4G)/ GNSS Adhesive Antenna

CGN 7026 LP A

Pt no.
920-625-001

- Combination antenna for positioning and data-services
- Terrestrial based transmission and satellite-based positioning
- Embedded high performance LNA with dual feed ceramic patch antenna and phase shift network for optimized cross polarization discrimination(XPD)
- Mounting by adhesive foam pad on metallic and non metallic ground as well as on glass
- 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.

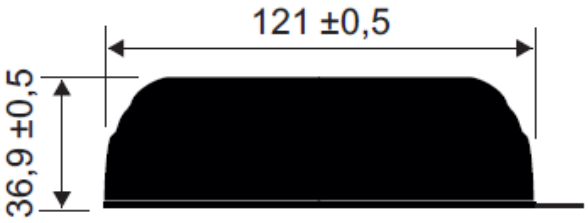
Subject to alterations

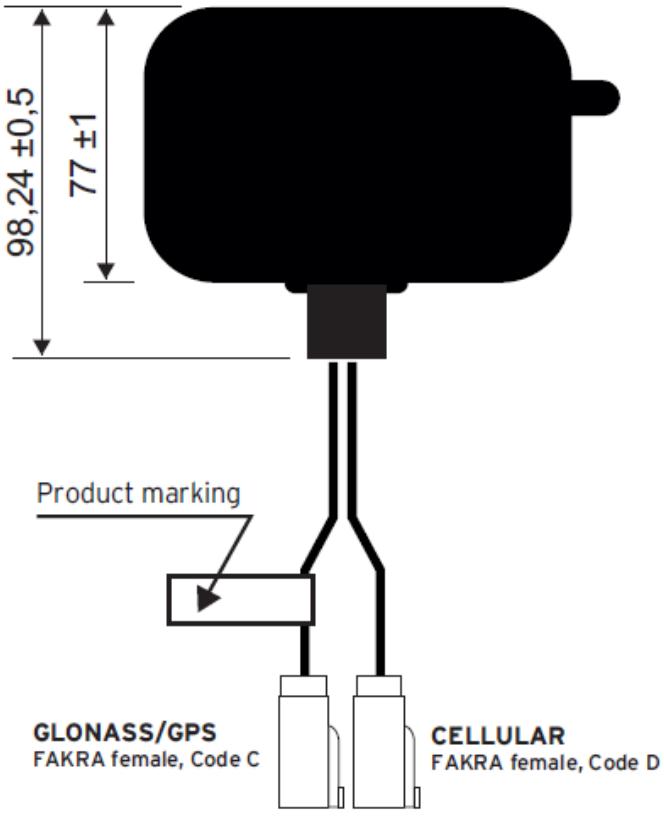
Technical data

Dimensions		121 mm x 77mm x 37 mm
Weight	ca.	165 g
Temperature range		-40 – +85°C
Protection class		IP6k6 (acc. ISO 20653)
Cellular		
Frequency range	Low: High:	698 - 960 MHz 1710 - 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		3000 ±40 mm
Connector		FAKRA, Code D, bordeaux
GNSS		
Frequency range	GPS (L1): Galileo (E1): Beidou (B1C): GLONASS (G1):	1563 – 1587 MHz 1559 – 1591 MHz 1559 – 1591 MHz 1593 – 1610 MHz
Impedance		50 Ohm
VSWR		≤ 2,0
Gain		1 dBic[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		3000 ±40 mm.
Connector		FAKRA female, Code C, blue

[1)] dBic: referenced to an isotropic radiator, circular polarization
[2)] dBi: referenced to an isotropic radiator

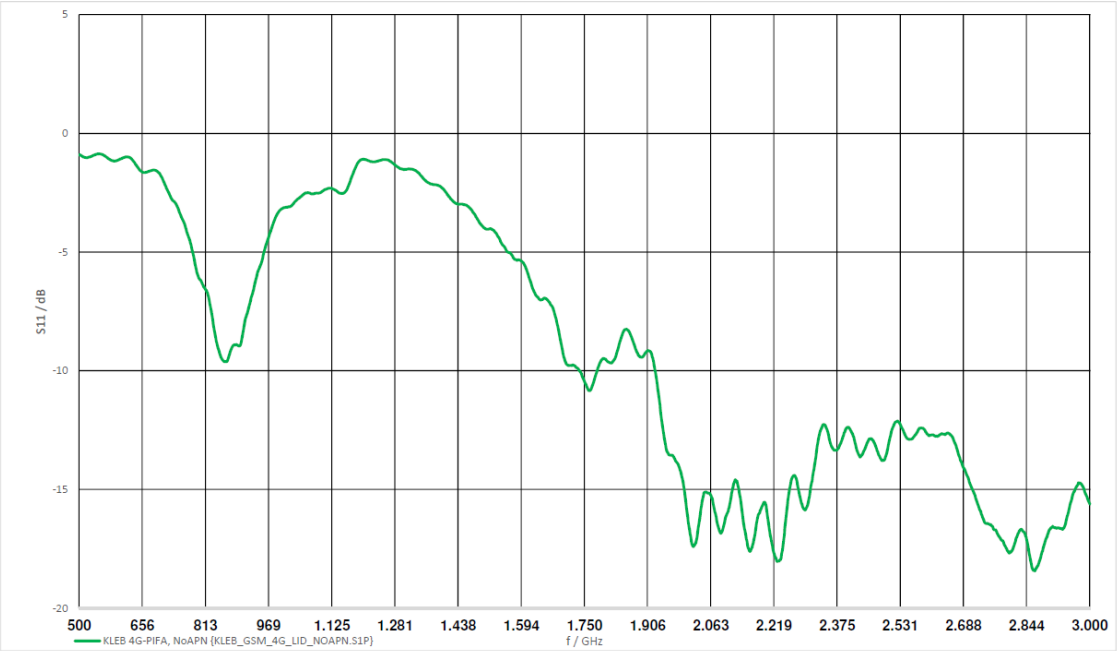
Technical drawings



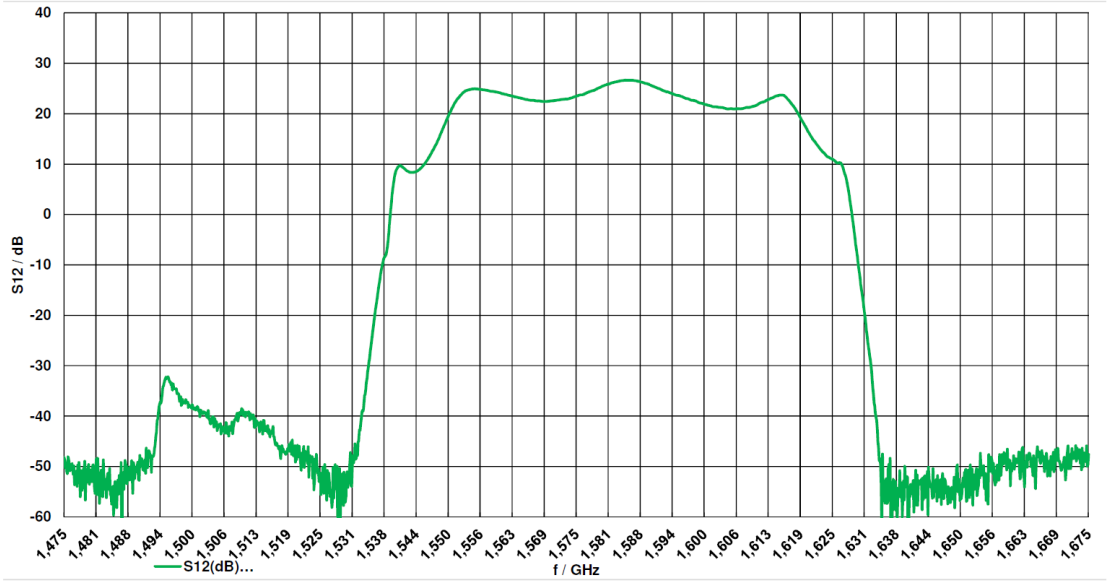


Antenna diagrams

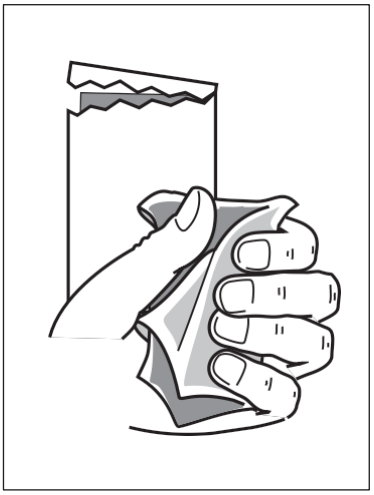
Typ. VSWR (S_{11}) CELLULAR bands

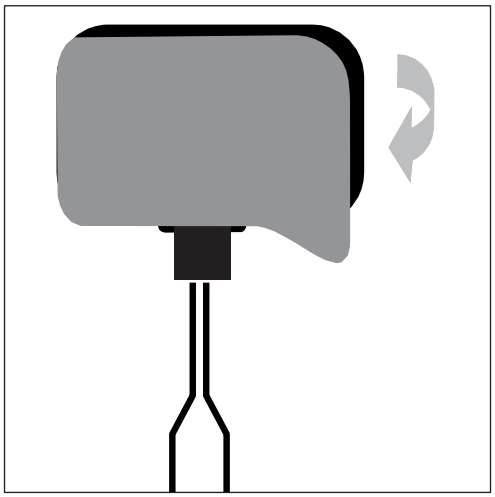


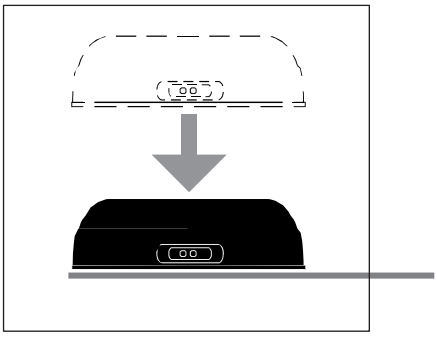
Typ. gain (S_{12}) GNSS-LNA



Installation







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