



HIRSCHMANN MOBILITY Cellular/ GNSS Screw Antenna CGN 7026 LP S/Series Part Number 920-626-XXX

Features

- 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)
- 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.

Technical Data

Dimensions	124mm x 80mm x 31 mm
Weight	ca. 280 g
Temperature range	-40°C - +85°C
Protection class	IP6k6
Cable type	RG 174

Technical Data

Cellular		
Frequency range	Low:	698 - 960 MHz
	High:	1710 - 2690 MHz
Services	2G:	GSM 850/900 MHz
		GSM 1800/1900 MHz
	3G:	UMTS
	4G:	LTE-bands (1 - 10; 12 - 20; 23, 25; 26 - 30; 33 - 41; 44)
Impedance		50 Ohm
Load capacity	max.	10 W pulsed acc. GSM standard
VSWR		< 2.0
Gain		0 dBi ¹⁾
Load capacity	max.	10 W pulsed acc. GSM standard
Diagnostic resistor		10 kOhms
GNSS		
Frequency range	GPS:	1563 - 1587 MHz (L1)
	QZSS:	1563 - 1587 MHz (L1)
	Galileo:	1559 – 1591 MHz (E1)
	BeiDou:	1559 - 1591 MHz (B1C)
	GLONASS:	1593 - 1610 MHz (G1)
Impedance		50 Ohm
VSWR		≤ 2.0
Gain		1 dBic ²⁾
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

¹⁾ dBi: referenced to an isotropic radiator

 $^{\rm 2)}\,d\textsc{Bic:}$ referenced to an isotropic radiator, circular polarization

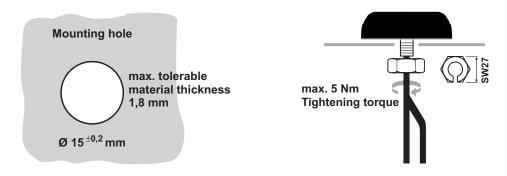
Versions

PN	Description	CELL	GNSS
920-626-001	CGN 7026 LP S/0.2	200 mm FAKRAm, D bordeaux	200 mm FAKRAm, C blue
920-626-002	CGN 7026 LP S/FAKRAf/3.0	3000 mm FAKRAf, D bordeaux	3000 mm FAKRAf, C blue

Technical Drawing

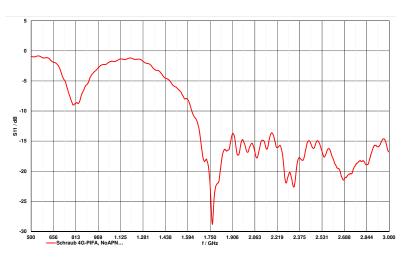


Installation

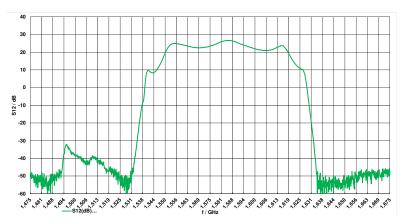


Antenna diagrams

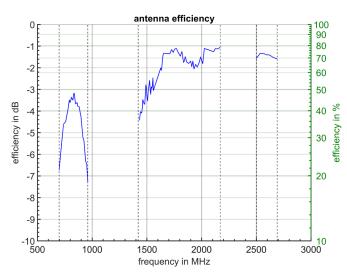
Typ. VSWR (S₁₁) Cellular bands



Typ.Gain (S₁₂) GNSS-LNA

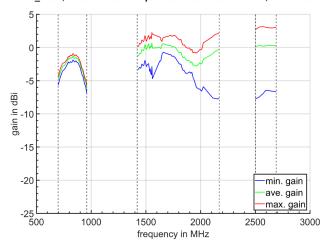


Efficiency CELL Conductive Ground plane



Gain CELL Conductive Ground plane

partial average antenna gain (Theta=[60.00 - 90.00]° ; Phi=[0.00 - 360.00]°) E_Total, Theta - linear w. spherical area consideration, Phi - linear



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