



Dual Frequency Antenna Delivers Excellent Performance, Multipath Rejection and L-band Functionality

Benefits

Provides a single antenna solution for GPS L1, L2, L5, Galileo L1, E5a & b, E6, GLONASS L1, L2 and L-band

Features

Access to multiple Global Navigation Satellite Systems

Exceptional L-band Reception

The GPS-704-X Galileo passive antenna features improved performance to ensure excellent operation in all GPS, Galileo and GLONASS frequency bands. The antenna also includes NovAtel's patented Pinwheel™ technology for excellent multipath rejection and phase centre stability.

If you require more information about our antennas, visit novatel.com/products/gnss-antennas



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Europe 44-1993-848-736

SE Asia and Australia 61-400-883-601

Performance

3 dB Pass Band 1.15 - 1.65 GHz

Passive Antenna External LNA Required

Gain at Zenith (90°)

L1	+6.0 dBic (minimum)
L2	+2.5 dBic (minimum)
L5, E5a	+2.0 dBic (minimum)
E6	+3.0 dBic (minimum)
L-band	+6.0 dBic (minimum)

Gain Roll-Off (from Zenith to Horizon)

L1, L-band	14 dB
L2, E6	11 dB
L5, E5	11 dB
VSWR	≤ 2.0 : 1
Nominal Impedance	50 Ω
Altitude	9,000 m

Physical and Electrical

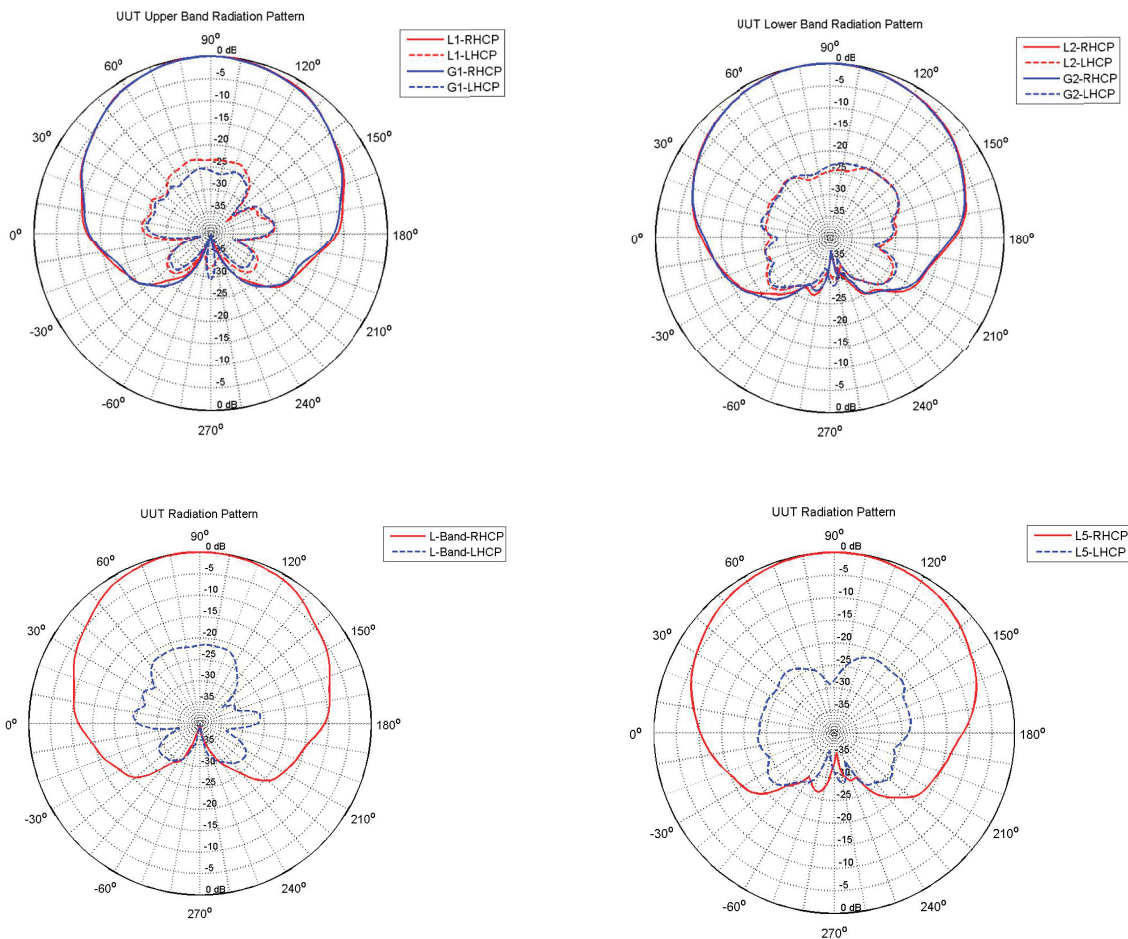
Size	
Diameter ¹	185 mm
Height	69 mm
Weight	468 g
Connector	TNC female

Environmental

Temperature	
Operating	-40°C to +85°C
Storage	-55°C to +85°C
Humidity	95% non-condensing
Salt Spray	MIL-STD-810F, 509.4
Ingress Protection	IPX6 and IPX7
Waterproof	IEC 60529 IPX7
Compliance	CE
RoHS	EU Directive 2002/95/EC

Elevation Gain Patterns

These plots represent the typical right-hand polarized (RHP) and left-hand polarized (LHP) normalized radiation patterns for the L1 frequency, the L2 frequency, the L-band and the L5 frequency, respectively.



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 For the most recent details of this product:
novatel.com/Documents/Papers/GPS-704-X.pdf

¹ Not including tape measure tab. Full diameter with tape measure tab is 195 mm.

