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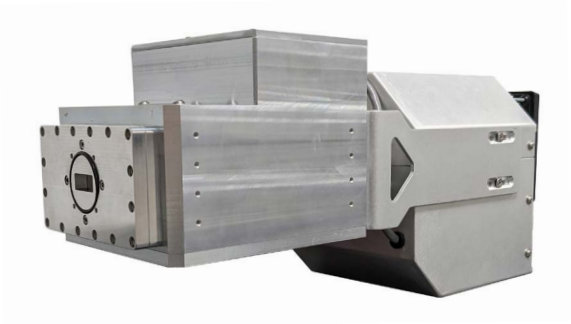
X Compact Cryo LNA
7.25-8.5 GHz
20 K

X band compact Cryo LNA for lunar communication & radioastronomy



USING **CUTTING-EDGE TECHNOLOGY**, THE COMPACT CRYO LNA FAMILY OFFERS OUTSTANDING PERFORMANCE

Innovative technology

State-of-the-art technology provides a very low noise figure at X band: 7.25-8.5 GHz, with superior performance from a highly compact unit.

With this innovative technology a superior antenna G/T is achieved to improve link margin.

Reduce antenna diameter by 20% for same gain performance.

Efficiency & Reliability

Each unit is fully tested and delivered with a complete factory acceptance test report.

Advanced design and construction mean the equipment can be operated in the toughest environments.

Exceptional performance combined with reliability and cost effectiveness.

Low power consumption and virtually maintenance free.

Configurability

Plug and play unit, vacuum pump not required.

The unit can operate in any orientation on movable antenna structure.

Redundant configurations.

Key Features

* Singel or dual channel
* Satcom and radioastronomy applications
* Superior performance
* High reliability & efficiency
* Ultra-low noise figure
* High gain & low ripple
* Low input & output VSWR
* Compact size & lightweight
* Wide operating temperature range
* Redundant configurations (1:1, 1:2, N:1)

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Technical specifications

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OPTIONS

* Indoor power supply unit
* Redundant systems 1:1, 2:1, N:1
* NT Boost to attain 18 K NT at LNA

RF performance

Operating freq. range	7.25-8.5 GHz
Noise temperature	<20 K
Noise figure	<0.56 dB
Input VSWR	<2.0:1
Output VSWR (50 Ω)	<1.3:1 (with output isolator)
Gain	>50 dB
Gain flatness	2 dB pp max
Gain variation over temp.	±1.5 dB
Output P1dB	>10 dBm
3rd OIP	>25 dBm
Group delay	<0.5 ns

Power supply & monitoring

Input voltage	230 VAC / 50 Hz or 110 VAC / 60 Hz
Current consumption	200 W
Connection	Remote TCP/IP

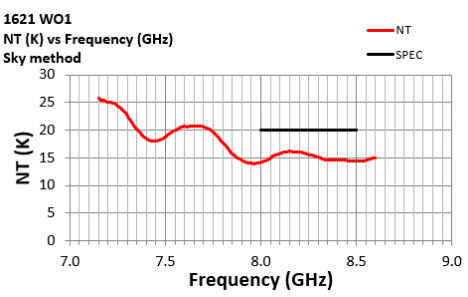
Interfaces & physical

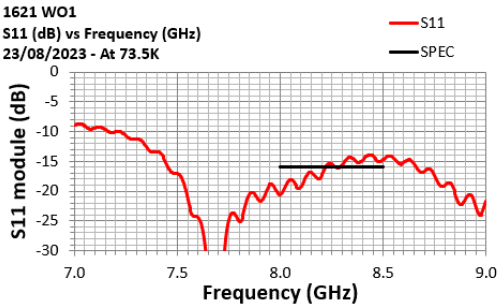
Dimensions (L x W x H)	612 x 235 x 188 mm
Weight	11 kg
Interfaces	RF input flange: WR112
	RF output: K (f)
	DC & monitoring: PT02A10-5P

Environmental

Operating temperature	-10 °C to +40 °C
Storage temperature	-40 °C to +60 °C
Humidity	100 % condensing

Typical measured data





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