

# X band LNA/LNB range for earth observation & lunar communication



USING CUTTING-EDGE TECHNOLOGY, THE NEW X LNA FAMILY OFFERS OUTSTANDING PERFORMANCE IN OUTDOOR OPERATIONS



## Innovative technology

State-of-the-art technology provides a very low noise figure at X band: 8.4-8.5 GHz, with superior performance from a highly compact unit.

## Efficiency & Reliability

Each unit is fully tested in an environmental chamber 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.

## Configurability

Several options to configure the product at factory are available, including gain, VSWR and noise temperature. Other port configurations, such as coaxial connector can also be supplied, upon request.

## Key Features

- \* Satcom application
- \* Superior performance
- \* High reliability & efficiency
- \* Ultra-low noise figure
- \* High gain & low ripple
- \* Low input & output VSWR
- \* Fault alarm
- \* Compact size & lightweight
- \* Weatherproof
- \* Wide operating temperature range
- \* Redundant configurations (1:1, 1:2, N:1)



**OPTIONS**

- \* Coaxial connector
- \* Redundant systems 1:1, 2:1, N:1
- \* Indoor controller
- \* Extended temperature range: -40 °C, + 55 °C

**RF performance**

Operating frequency range	8.4-8.5 GHz
Noise temperature	<50 K
Noise figure	<0.69 dB
Input VSWR	<1.6:1
Output VSWR (50 Ω)	<1.3:1
Gain	>55 dB
Gain flatness	1 dB pp max
Gain variation over temperature	±1.5 dB
Output P1dB	>10 dBm
3 <sup>rd</sup> OIP	>20 dBm
Spurious	<-60 dBc

**Power supply & Monitoring**

Input voltage	+12 to +28 VDC
Current consumption	<200 mA @12 VDC
Fault alarm circuitry	Form-C contact closure

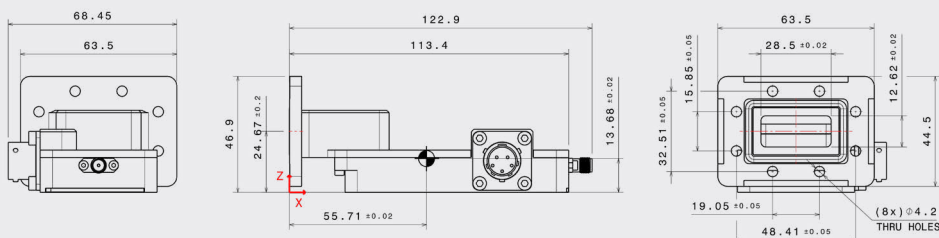
**Interfaces & Physical**

Dimensions (L x W x H)	101.2 x 65.8 x 46.6 mm
Weight	240 gr
Interfaces	RF input flange: CPR112G RF output: SMA (f) DC & monitoring: PT02A10-5P

**Environmental**

Operating temperature	-30 °C to +55 °C
Storage temperature	-40 °C to +85 °C
Humidity	100 % condensing

Outline drawing



Dimensions are in "mm" and after treatment  
Tolerance according to ISO 2768-f