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: 8.0-8.5 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)

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Technical specifications

X LNA
8.0-8.5 GHz
50K

RF performance

Operating frequency range	8.0-8.5 GHz
Noise temperature	<50 K
Noise figure	<0.69 dB
Input VSWR	<1.8:1
Output VSWR (50 Ω)	<1.4:1
Gain	>55 dB
Gain flatness	1.5 dB pp max
Gain variation over temperature	±1.5 dB
Output P1dB	>10 dBm
3rd 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

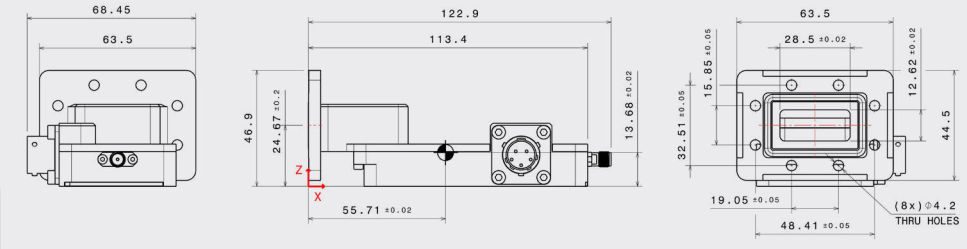
Interfaces & Physical

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 ºC to +55 ºC
Storage temperature	-40 ºC to +85 ºC
Humidity	100 % condensing

Outline drawing



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

OPTIONS

- Coaxial connector
- Redundant systems 1:1, 2:1, N:1
- Indoor controller
- Extended temperature range: -40 ºC, + 55 ºC

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