

# S band LNA/LNB range for Telemetry, Tracking & Command (TTC)



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



## Innovative technology

State-of-the-art technology provides a very low noise figure at S band: 2.20-2.30 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

- \* TTC
- \* 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**

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

**RF performance**

Operating frequency range	2.20-2.30 GHz
Noise temperature	<35 K
Noise figure	<0.49 dB
Input VSWR	<1.4:1
Output VSWR (50 Ω)	<1.5:1
Gain	>50 dB
Gain flatness	1 dB pp max
Gain variation over temperature	±1.5 dB
Output P1dB	>22 dBm
3 <sup>rd</sup> OIP	>30 dBm
Spurious	<-60 dBc

**Power supply & Monitoring**

Input voltage	+12 to +28 VDC
Current consumption	<300 mA @15 VDC
Fault alarm circuitry	Form-C contact closure

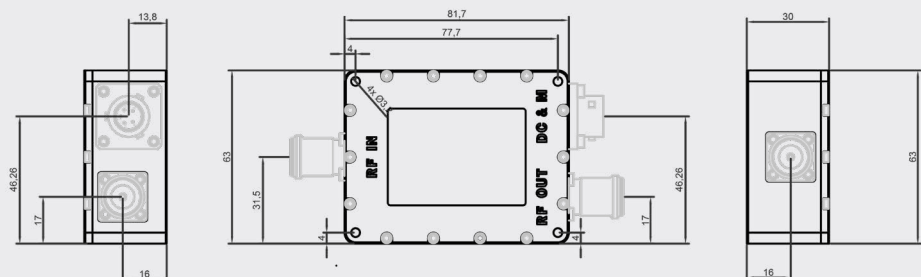
**Interfaces & Physical**

Dimensions (L x W x H)	81.7 x 63 x 30 mm
Weight	315 gr
Interfaces	RF input: N (f) RF output: N (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