

S Compact Cryo LNA 2.20-2.45 GHz

S band compact Cryo LNA for lunar communication & radioastronomy



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



State-of-the-art technology provides a very low noise figure at S band: 2.20-2.45 GHz, with superior performance from a highly compact unit.

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

Efficiency &
ReliabilityEach 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.





Key Features

LEGS specifications

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- 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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Indoor power supply unit

NT Boost to attain 8 K NT

Redundant systems 1:1, 2:1, N:1

OPTIONS

at LNA

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Technical specifications

RF performance

Operating freq. range	2.20-2.45 GHz
Noise temperature	<10 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
3 rd 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 coax input 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

Outline drawing

awing







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

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Information contained in this document is subject to change without notice.

Unless otherwise specifications, tests have been done at 23 °C.