



X LNB
7.25-7.75 GHz
50K

X BAND LNA/LNB RANGE FOR GOVERNMENT & DEFENCE SATCOM

Using **cutting-edge technology**, the new X LNB family offers outstanding performance in outdoor operations

INNOVATIVE TECHNOLOGY

State-of-the-art technology provides a very low noise figure at X band: 7.25-7.75 GHz, with superior performance from a highly compact unit.

EFFICIENCY & RELIABILITY

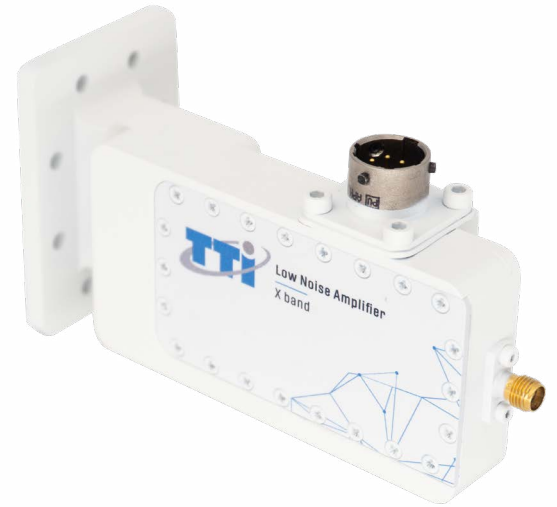
Each unit is fully tested in an environmental chamber and delivered with a complete factory acceptance test report.

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

TTI CONTACT

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NOTICE

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

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

TECHNICAL SPECIFICATIONS

X LNB

7.25-7.75 GHz

50K

ELECTRICAL

Output frequency range	950-1450 MHz
Operating frequency range	7.25-7.75 GHz
OL frequency	6.3 GHz
Noise temperature	<50 K
Noise figure	<0.69 dB
Input VSWR	<1.55:1
Output VSWR (50 Ω)	<1.4:1
Gain	>50 dB / 55 dB
Gain flatness	1 dB pp max
Gain variation over temperature	±1.5 dB
Output P1dB	>20 dBm
3 rd OIP	>30 dBm
Phase noise	-65 dBc/Hz @100 Hz -85 dBc/Hz @1 kHz -90 dBc/Hz @10 kHz -100 dBc/Hz @100 kHz -125 dBc/Hz @1 MHz
External references input frequency	10 MHz supplied through output connector
External references input power	0 dB ±5 dB
Image rejection	>30 dB
Spurious	<-60 dBc

POWER SUPPLY & MONITORING

Input voltage	+12 to +28 VDC
Current consumption	<320 mA @12 VDC
Fault alarm circuitry	Form-C contact closure

INTERFACES & PHYSICAL

Dimensions (L x W x H)	180 x 80 x 60 mm
Weight	350 gr
Interfaces	RF input flange: CPRI12G RF output: SMA (f) / N (f) DC & monitoring: PT02A10-5P

ENVIRONMENTAL

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