



AmpliTech

"Amplify Your Potential"

NEW

80°K Cryogenically Cooled LNA Assembly



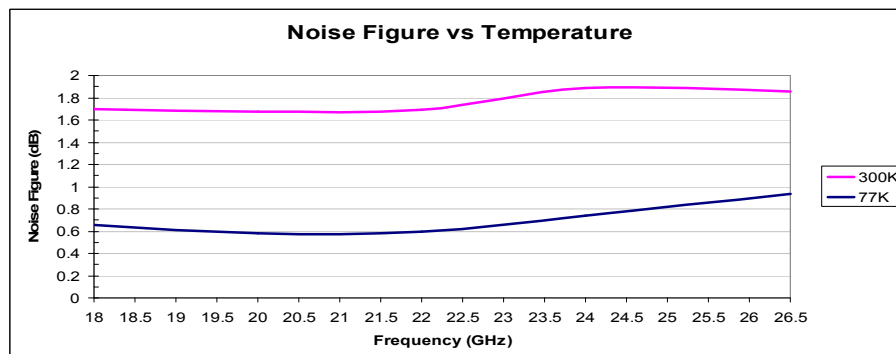
Features

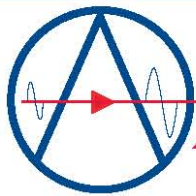
- No *Microphonic Sidebands*, reduces DSP post processing
- Proven Field results-1800 units deployed globally
- Minimal Maintenance requirements allow for deployment in remote locations.
- MTBF is greater than 50,000 hours for each integrated system.
- Cooled LNA/Assembly Located directly at Antenna Feed via 3 meter umbilicus
- Compact Size 12"x12"x9", Self Contained Refrigerator Cooling

Applications

- **Homeland Security Detection Technologies**
- **Cellular Base Stations**
- **Satellite Downlink Terminals (SATCOM)**
- **Terrestrial Radio Astronomy**
- **Remote Telecom Repeater Depots**

Typical Noise Figure improvement for a Ka – band LNA





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"Amplify Your Potential"

SPACE QUALIFIED LOW NOISE AMPLIFIERS

DESCRIPTION

These low noise amplifiers are designed, manufactured, tested, and screened to be extremely reliable and rugged for Space or Flight Applications. We use the highest quality parts and pass them through the most rigorous testing procedures. For further reliability, we utilize hermetically sealed Kovar housings.

Screening options include MIL-STD-883 and MIL-PRF-38534. In addition to the testing and standards that goes into these amps, we also provide complete documentation, Total Quality, Dedicated Project Management, Status Reporting, and the most essential requirement; Excellent Customer Service.

Applications include Space Communications, Satellite applications, Flight Systems, R&D, or just Hi-Rel applications that require high Mean-Time-Between-Failure numbers (as high as 1 Million hours). Custom designs are available including low cost options to meet your budget or level of necessity. On-Time and expedited deliveries make us the number one choice for these types of applications.



FEATURES

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| <ul style="list-style-type: none"> • MTBF of 1,000,000 Hours • Complete Traceability • Proven Manufacturing Flow for Minimized Failures • Full Qualification Reports • Serialized Data Sheets • Complete Documentation • Excellent Customer Service/Support • Unconditionally Stable • State-of-the-Art Technology • Flexible design for custom solutions | <ul style="list-style-type: none"> • Very lightweight, compact package • Multiple connector interfaces • Ultra-Low Current Consumption • High Efficiency • High Linearity • High Reliability • High Dynamic Range • Industry Leading Ultra-Low Noise Figures • Extremely Flat Gain Response |
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OPTIONS

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| <ul style="list-style-type: none"> • Acceptance Test Procedures • FMECA & WCA Reports • Custom SCD's • PDR, CDR, PMR, and TIM reviews • Weatherproofing | <ul style="list-style-type: none"> • Complete Custom designs for all specifications • +5 TO +28 VDC power options • Low Cost Space Level Designs • Gain Equalization | <ul style="list-style-type: none"> • Special Testing options (Burn-In, Bond Pull, Stress, etc.) • High Gain • High Output • Cryogenic Options |
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