

**NEW!**

## “AmpliTech Introduces 3 New Products!”

### 1-18 GHz Broadband Low Noise Amplifier with 1.5 dB Noise Figure The Lowest Noise Figure Available in the Industry

#### Product Features

- Frequency Range: 1.0 to 18 GHz
- **Noise Figure: 1.5 dB Max, 1.3 dB Typ**
- Gain: 35 dB Min
- Gain Flatness:  $< \pm 2.5$  dB Max
- Output Power: +20 dBm Min
- State-of-the-Art PHEMT Technology
- MIL-883, MIL-45208 construction and reliability
- Internal DC regulation allows supply voltage from +11 to +24 VDC

#### AWLN-35-01001800-1520-D4

#### Applications

- SATCOM
- Military
- Radar
- Air and Sea Traffic Control
- Satellite Downlinks
- Test Equipment



### Ultra-Low Noise Cryogenic Amplifier 2°K at 4K case temp in 4 to 10 GHz BW

#### Product Features

- Frequency Range: 4.0 to 10.0 GHz
- **Noise Temperature: 1°K typ at 4K case temp in 6 to 8 GHz BW**
- Gain: 40 dB Min
- Gain Flatness:  $< \pm 0.5$  dB typ
- Single +0.7 V Biasing
- Low 2.5 mW DC power dissipation at 4K
- No dual power supply or connector needed
- Customized Gain and Frequency Options Available

#### APTC3-04001000-1K00-D4-V

#### Applications

- Radiometers
- Nanophysics (Electron Spin Resonance)
- Astronomy/Observatory Receivers
- Superconducting Qubits
- Satellite Receivers



### Satellite Access Point Block Downconverter (BDC)

**Specialty  
MICROWAVE**

#### Product Features



The Specialty Microwave BDC assembly is used as a test device on Satellite Access Point (SAP) antennas located worldwide. The BDC assembly down converts a Ka band signal, 17.7 GHz to 19.7 GHz, from the LNAs on either polarization of the antenna to between 950 and 2150 MHz using a high and low band block downconverter. The user can select a signal from either LNA, and either BDC. The BDC assembly can allow the user to communicate via Ethernet optical interface to the Antenna Control Unit (ACU). The BDC assembly also includes an NTP server with GPS antenna that can communicate with the Antenna Control Unit.

All AmpliTech amplifiers are **MADE IN USA** with:

- Reverse Voltage Protection
- Internal Regulation
- State-of-the-Art PHEMT Technology
- MIL-883, MIL-45208 Assembly Standards



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