APOGEE LABS

AL2573

RF Distribution

With adjustable gain and offset

The AL2500 product line is designed to accommodate complex analog and digital distribution functions, including RF distribution, IF distribution and amplification. Typical applications are those in which the user requires the dissemination of multiple copies of a single RF or analog signal. Moreover, the modular and scalable design (up to 6 available module slots) permits users to easily expand and adapt the capabilities to specific applications. The chassis is designed reduce the rack space requirements while providing the same proven reliable performance of the larger more densely populated AL2500 chassis and supports following modules currently in use with the 15 channel AL2500.

The modules and power supplies are easily inserted into the rear of the chassis, permitting the user to easily retrofit the system as needs change.

CHASSIS FEATURES

- 3.5” (H) x 9” (D) x 19” (W) rack-mount
- RF Distribution & Amplification
- Auto sensing power supplies
  - 115 VAC to 230 VAC
  - 50 Hz to 400 Hz
- Modular & scalable - Up to 6 modules
- Hot swappable, redundant power supply
  - Independent power source & switch
  - Front panel LED power indicator

CHASSIS SPECIFICATIONS

PHYSICAL CHARACTERISTICS

- 3.5” H x 19” W rack mountable
- Weight: 6 lbs. empty
- 6 module slots - rear loading
- 1 power supply bays

OPERATING ENVIRONMENT

- Temperature: 0º C to 50º C
- Humidity: Up to 95% non-condensing

POWER SUPPLIES

- Modular rear mounted plug in
- Auto-sensing 115/230 VAC; 50/60/400 Hz
- Power on/off switch
- Front panel power-on indicator

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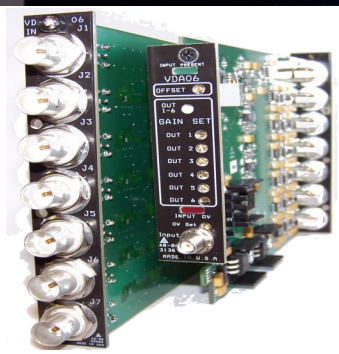
AL2573-RF04 / RF06

RF Distribution Amplifier

With adjustable gain and offset



The Apogee Labs RF04/RF06 is an Interfacer II module that is designed to accept a single wide-band signal and reproduce it on four or six independent gain controlled outputs. The module presents its controls and indicators and a test -point connector on its front panel. The signal input and four/six outputs are located on the module rear panel. All rear panel connectors are BNC type. The front panel connector is SMA type.

The user is given a front panel screw driver control for: input signal DC offset (BIAS) adjustment, over voltage (OVER) LED indication threshold by means of the SET adjustment, individual GAIN control for each of the four outputs, and an overall GAIN control. The presence of an input signal is indicated on an LED identified as PRES which is factory set at 400mV.

RF SPECIFICATIONS

- One input on BNC connector
  - ◊ 1 V-rms nominal
  - ◊ 75Ω termination
  - ◊ Max input range ±10V
  - ◊ Max input without damage ±10Vrms
  - ◊ DC offset control ±50%
- Four / Six outputs on BNC connectors
  - ◊ 75Ω termination
  - ◊ 1 V-rms nominal
  - ◊ Output level +/-10V no load
- Individual output gain control
  - ◊ -10 dB to +15 dB with 1 V-rms nominal input
- Wide-band frequency response
  - ◊ ±1 dB, DC to 30 MHz
  - ◊ ±2 dB, DC to 60 MHz
- Harmonic distortion > 40 dB below rated output
- Noise floor > 60 dB below rated output
- Input signal port return loss > 20 dB
- Channel to channel isolation
  - ◊ > 80 dB at 1 MHz
  - ◊ > 60 dB at 20 MHz
- Front panel indicators
  - ◊ Test point , isolated –20 dB of input
  - ◊ Over voltage LED with set point control
  - ◊ Signal present LED