The 1200-75 AGC Amplifier provides automatic gain control (AGC) for a 250 to 750 MHz signal. It takes a -25 to -45 dBm composite 250-2150 MHz input signal, extracts the 250-750 MHz band with a low pass filter and automatically adjusts the gain for a 0 to -10 dBm (+1 dB) output which can be adjusted using the front panel potentiometer. The 1200-75 can switch between automatic gain control (AGC) or manual gain control (MGC). A potentiometer on the rear panel allows for manual gain adjustment when in MGC mode. The 1200-75 is powered by a 100-240 ±10% VAC switching power supply and is housed in a 1RU x 14” deep chassis.

**Input Characteristics**
- Impedance/RL: 75 Ω/12 dB
- Frequency: 250-750 MHz
- Input Composite Level: -25 to -45 dB
- Input, max. no damage: +15 dBm

**Output Characteristics**
- Impedance/RL: 75 Ω/12 dB
- Frequency: 250-750 MHz
- AGC'd Comp. Level: 0 to -10 dBm, ± 1 dB, set by a potentiometer
- Output 1 dB compression: +10 dBm

**Channel Characteristics**
- AGC Set: 0 to -10 dBm, potentiometer set
- MGC Gain: 0 to +20, potentiometer set
- AGC Response: 5 ± 2 seconds for 10 dB input level change
- Frequency Response: ± 2.0 dB, 500 MHz bandwidth; ± 0.5 dB, 36 MHz increment
- 0.95-2.2 GHz rejection: < -50 dBc, 0.25-2.2 GHz feed through rejection; relative to the COMPOSITE Output Level
- Group Delay, max.: 0.015 ns/MHz², parabolic, 0.03ns/MHz, linear, 1 ns ripple, 36 MHz BW
- Harmonics: > 40 dBc

**Controls/Indicators**
- AGC/MGC Switch: Switches between Manual (MGC) or Automatic (AGC) Gain control
- Level Adjust: Potentiometer that adjusts output level in AGC mode
- MGC Adjust: Potentiometer that adjusts manual gain in MGC mode
- AGC Voltage: Allows for monitoring of the AGC gain (BNC female connector)
- Power: Green LED

**Other**
- RF Connectors: BNC (female), 75 Ω
- Size: 19 inch standard 1RU chassis 1.75"high X 14.0" deep
- Power: 100-240± 10% VAC, 47-63 Hz, 30 W max.

*+10˚C to +40˚C; 2000 meters max elevation; 80% max humidity; Specifications subject to change without notice.*