1200-08 IF AGC Amplifier

The 1200-08 IF Amplifier provides automatic gain control (AGC) for a 50 to 200 MHz IF signal. It takes a -35 to 0 dBm input signal and automatically adjusts the gain for a 0 to +10 dBm (± 1 dB) output which can be adjusted using the front panel potentiometer. The 1200-08 has a band limiting lowpass filter. It also has capabilities to 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 1200-08 is powered by a 90-260 VAC switching power supply and is housed in a 1RU x 14” deep chassis.

Front and Rear Panels

EQUIPMENT SPECIFICATIONS*

Input Characteristics
- Impedance: 50Ω or 75Ω
- Return Loss: 14 dB
- Frequency: 50 to 200 MHz
- Input Level range: -35 to 0 dBm
- Input 1 dB comp.: +5 dBm @ min gain

Output Characteristics
- Impedance: 50Ω or 75Ω
- Return Loss: 14 dB
- Output Level: 0 to +10 dBm
- Output 1 dB comp.: +15 dBm

Channel Characteristics
- Gain: 0 to +45 dB (AGC)
- Frequency Response: ±1.0 dB, 50-200 MHz; ±0.5 dB, ± 20 MHz
- Group Delay, max: ±2 ns, max 50 to 200 MHz

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
- IF Connectors: BNC (female)
- 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

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