1200-07 IF AGC Amplifier

The 1200-07 IF Amplifier provides automatic gain control (AGC) for a 50 to 200 MHz IF signal. It takes a -80 to 0 dBm input signal and automatically adjusts the gain for a -35 dBm ± 10 dB output. The 1200-07 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 1200-07 is powered by a 100-240 ±10% VAC switching power supply and is housed in a 1RU x 14” deep chassis.

EQUIPMENT SPECIFICATIONS*

Input Characteristics
Impedance/Return Loss 50Ω/18 dB
Frequency 50 to 200 MHz
Input Level range -80 to 0 dBm
Input 1 dB comp. +5 dBm

Output Characteristics
Impedance/Return Loss 50 Ω/12 dB
Output Level -35 ± 10 dBm

Channel Characteristics
Gain -35 to +35 dB (AGC)
Frequency Response ± 1.0 dB, ± 18 MHz
Group Delay, max ± 5 ns, max 50 to 100 MHz

Controls/Indicators
AGC/MGC Switch Switches between Manual (MGC) or Automatic (AGC) Gain control
MGC Potentiometer Controls manual gain in MGC mode
AGC Voltage Allows for monitoring of the AGC gain (BNC female connector)
DC 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