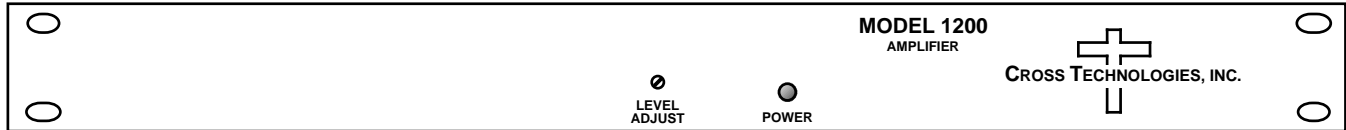
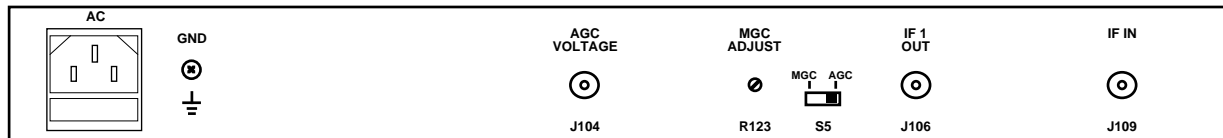


1200-75 AGC Amplifier, 250-750 MHz

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 $\pm 10\%$ VAC switching power supply and is housed in a 1RU x 14" deep chassis.



FRONT



REAR

EQUIPMENT SPECIFICATIONS*

Input Characteristics

Input Impedance/RL 75 Ω /12 dB
 Frequency, 250-750 MHz
 Input **Composite** Level -25 to -45 dBm
 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

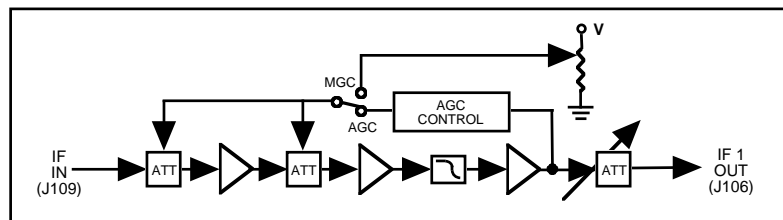
AGC Set 0 to -10 dBm,, potentiometer set
 MGC Gain 0 to +20, potentiometer set
 AGC Response 5 \pm 2 seconds for 10 dB input level change
 Frequency Response ± 2.0 dB, 500 MHz bandwidth; ± 0.5 dB, 36 MHz increment
 0.95- 2.2 GHz rejection < -50 dBc, 0.25-2.2 GHz feed through rejection; relative to the 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 \pm 10% VAC, 47-63 Hz, 30 W max.



Block Diagram

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