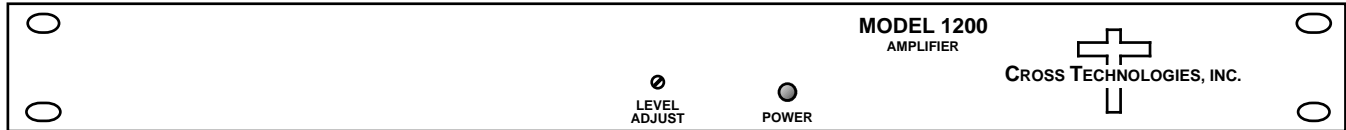
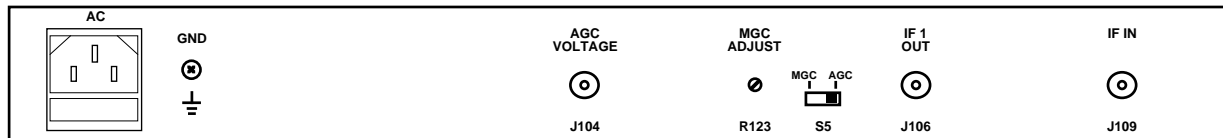


## 1200-75 AGC Amplifier, 250-750 MHz

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 ( $\pm 1$  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  $\Omega$  /12 dB  
 Frequency, 250-750 MHz  
 Input Composite Level -25 to -45 dBm  
 Input, max. no damage +15 dBm

#### Output Characteristics

Impedance/RL 75  $\Omega$  /12 dB  
 Frequency 250-750 MHz  
 AGC'd Comp. Level 0 to -10 dBm,  $\pm 1$  dB, set by a potentiometer  
 Output 1 dB compression +10 dBm

#### Channel Characteristics

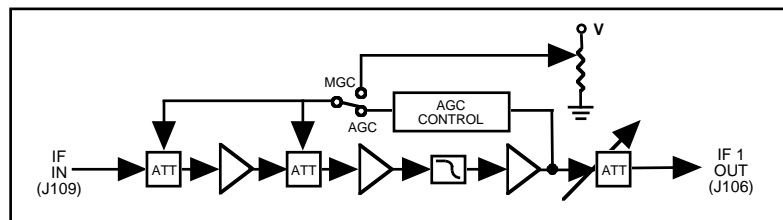
AGC Set 0 to -10 dBm,, potentiometer set  
 MGC Gain 0 to +20, potentiometer set  
 AGC Response 5  $\pm$  2 seconds for 10 dB input level change  
 Frequency Response  $\pm 2.0$  dB, 500 MHz bandwidth;  $\pm 0.5$  dB, 36 MHz increment  
 0.95- 2.2 GHz rejection < -50 dBc, 0.25-2.2 GHz feed through rejection; relative to the COMPOSITE Output Level  
 Group Delay, max. 0.015 ns/MHz<sup>2</sup>, 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  $\Omega$   
 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.