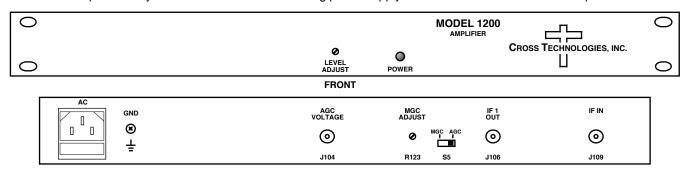


DATA SHEET Rev. B

1200-75 AGC Amplifier, 250-750 MHz

The 1200-75 AGC Amplifier provides automatic gain control (AGC) for a 250 to 750 MHz signal (can also take a composite 250-2150 MHz input signal and extract the 250-750 MHz band with its low pass filter). The 1200-75 takes the -45 to -25 dBm, composite, 250-750 MHz signal and automatically adjusts the gain for a -10 to 0 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. Input/output impedance is 75 ohm BNC (50 ohm BNC Option - D). The 1200-75 is powered by a 100-240 ±10% VAC switching power supply and is housed in a 1RU x 14" deep chassis.



REAR

Block Diagram

EQUIPMENT SPECIFICATIONS*

Input Characteristics

Output Characteristics

Impedance/RL 75 Ω/12 dB Frequency 250-750 MHz

AGC'd Comp. Level -10 to 0 dBm, ± 1 dB, set by a potentiometer

Output 1 dB compression +10 dBm

Channel Characteristics

AGC Set -10 to 0 dBm,, potentiometer set MGC Gain 0 to +20 dB, 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, 0.95-2.2 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 / Options

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.

OPTION -D 50 ohm impedance, Input and Output connectors

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