2097-08 IF Amplifier

2097-08 IF Amplifier - The 2097-08 IF Amplifier provides automatic Gain Control for a 50 to 100 MHz IF signal for a -95 to -15 dBm input level to a -30dBm, +8, -15 dB output. The 2097-08 has a band limiting lowpass filter and automatic gain (AGC) or manual gain (MGC) for a -95 to -15 dBm input range. The 2097-08 is powered by a 120 VAC, 60Hz, wall power supply and is housed in an 4.7" wide X 1.75" high X 12.5" deep aluminum chassis. Option -R provides 1 3/4" X 19 " rack mount panel. Option -C has no power supply for use with a Series 2000 Power Supply.

2097-08 IF Amplifier Block Diagram

2097-08 IF Amplifier Block Diagram and Chassis

EQUIPMENT SPECIFICATIONS*

Input Characteristics
Impedance/RL 50Ω/10 dB
Frequency 50 to 100 MHz
Input Level range -95 to -15 dBm
Input 1 dB +5 dBm

Output Characteristics
Output Impedance/RL 50 Ω/18 dB
Output Level -30dBm, +8, -15 dB

Channel Characteristics
Gain -25 to +45, AGC
Frequency Response ± 1.0 dB, ± 18 MHz
Group Delay, max ± 5 ns, max 50 to 100 MHz

Controls/Indicators
MGC/AGC; MGC Pot Switches between Manual (MGC) or Automatic (AGC) Gain control; Pot controls manual gain
DC Power Green LED

Other
IF, RF Connectors BNC, female
Size, Bench Top 4.7" wide X 1.75" high X 8.5" deep
Size, Rack Mount (-R) 19 inch standard chassis 1.75"high X 9.0" deep (Optional)
Power 120 ± 10% VAC, 60Hz, 20 watts max, wall mount power supply

Model Numbers
2097-08 wall power supply
2097-08R wall power supply, rack mount
2097-08C no power supply, use with 2000-01 power supply

*+10 to +40 degrees C; Specifications subject to change without notice

CROSS TECHNOLOGIES, INC.
6170 Shiloh Road, Alpharetta, Ga. 30005
770-886-8005, FAX 770-886-7964 e-mail info@crosstechnologies.com
www.crosstechnologies.com