2097-07 IF Amplifier

**2097-07 IF Amplifier** - The 2097-07 IF Amplifier provides automatic Gain Control for a 50 to 100 MHz IF signal for a -80 to 0 dBm input level to a -35 dBm ± 10 dB output. The 2097-07 has a band limiting lowpass filter and automatic gain (AGC) or manual gain (MGC) for a -80 to 0 dBm input range. The 2097-07 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.

**2097-07 IF Amplifier Block Diagram**

### EQUIPMENT SPECIFICATIONS*

**Input Characteristics**
- Impedance/RL: 50Ω/10 dB
- Frequency: 50 to 100 MHz
- Input Level range: 0 to -80 dBm
- Input 1 dB: +5 dBm

**Output Characteristics**
- Output Impedance/RL: 50 Ω /18 dB
- Output Level: -35 ± 10 dB

**Channel Characteristics**
- Gain: -35 to +35, 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**
- 2097-07 wall power supply
- 2097-07R wall power supply, rack mount
- 2097-07C no power supply, use with 2000-01 power supply

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