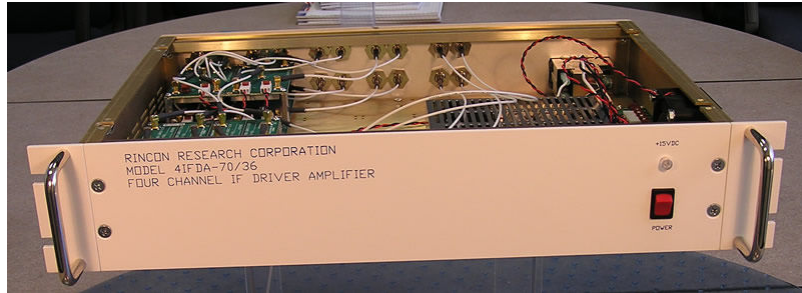


4-Channel IF Driver Amplifier 4IFDA-70/36

The Rincon Research Corporation Model 4IFDA-70/36 is a four-channel, high-output driver amplifier for interfacing standard 70-MHz intermediate frequency (IF) systems directly to high-speed, video analog-to-digital converter inputs.



Features

- Standard 70-MHz IF inputs
- Band-limiting filters on each input channel reduce spurious responses
- 30-dB gain with <5-dB noise figure (36-MHz input bandwidth)
- 2 Volt p-p output into 50-ohm impedance drives A/D directly
- Provides up to four output ports for each input channel

Description

Each channel amplifies and filters a 36-MHz wide block of frequencies centered at the 70-MHz IF input and provides four outputs for each input channel. Channel gain is +30 dB with each output capable of driving a minimum of 2 Volts p-p into a 50-ohm load impedance.

Specifications

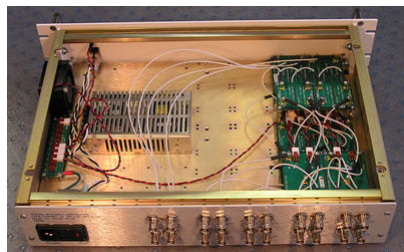
General:

Number of Input Channels	4
Number of Output Channels	4 per input channel
Input Center Frequency	70 MHz
3-dB Bandwidth	36 MHz
Channel Gain	+30-dB, nominal +/-3 dB
Amplitude Variation	+/- 1.0 dB typical
Amplitude Ripple	+/- 0.25 dB typical
Group Delay Variations	80 nsec max., 52 nsec typical
Absolute Delay	1.08 usec typical



Input:

Input Level	-20 dBm to -85 dBm
Input Port Impedance	50 ohms
Input Port Return Loss	>10 dB, (VSWR <2:1)
Input Noise Figure	<5 dB, 4.1 dB typical



Output:

Output +1-dB Gain Compression	+18 dBm typical
Output Level	+10 dBm
Output Port Impedance	50 ohms
Output Port Return Loss	>10 dB; (VSWR <2:1)
DC Offset	0 VDC (unit is AC coupled)
Two-Tone IMD	Third order products < 30 dBc at +10 dBm output levels

Physical Properties:

Input / Output Connectors	BNC
Dimensions	17.07"W x 3.47"H x 12.27"D
Weight	10 lbs. (4.5 Kg.)
Temperature, Operating	0C to +50C
Power (Standard configuration)	85-132 VAC 47-63 Hz, 30 watts