



FEATURES

- Bandwidth - dc to 16 MHz
- Low Noise - BINR >70 dB
- Low Intermods - NPR >65 dB
- 15 Amplifiers per Chassis
- Six Outputs per Amplifier

DESCRIPTION

The Model 7292A FDM Distribution Amplifier System provides the isolation and linear amplification required for distribution of video or baseband signals in the frequency range from dc to 16 MHz. Its low noise and low intermodulation distortion make it particularly useful for distributing the output of FDM demodulators in CCITT configured systems. Gain slope and delay distortion are tightly controlled parameters of this amplifier.

Each amplifier channel is capable of driving up to six loads, and contains overload warning and signal present LED indicators as well as front panel screwdriver adjustable gain control. The input and outputs of each amplifier are on the rear panel.

Plug-in amplifier and power supply modules make this a flexible system which allows the user to configure a system with up to 15 independent amplifiers, which occupies only 5-1/4 inches of vertical rack space. The unit is mechanically designed to provide exceptional EMI/RFI protection.

SPECIFICATIONS

Frequency Response	dc to 16 MHz (± 0.5 dB)
Number of Outputs	Six per amplifier
Impedance (input and output)	50 ohms - Standard 75 or 93 ohms - Optional
Return Loss	> 20 dB
Gain	0 to 15 dB, adjustable
Gain Stability	± 0.5 dB
Dynamic Range (1 dB compression)	+20 dBm
Noise Power Ratio (0 dBm loading)	> 65 dB
BINR	> 70 dB
Maximum Gain Slope (any 4 kHz segment)	
4 kHz to 12 kHz	± 0.1 dB/kHz
12 kHz to 16 MHz	± 0.02 dB/kHz
Maximum Delay	
Distortion	10 ns p-p (dc to 16 MHz)
Isolation (channel to channel)	> 60 dB

Connectors (each amplifier)	
Input	BNC, one on rear panel
Output	BNC, six on rear panel
Controls (each amplifier)	GAIN
Indicators (each amplifier)	Overload LED Signal Present LED
Power	115/230 Vac, 47-63 Hz, 125 watts - Standard 400 Hz ac Input - Optional
Temperature - Operating	0° to 50° C
Style	EIA Standard Chassis 5-1/4 inches high, 16 inches deep, suitable for 19-inch rack mounting
Number of Amplifiers	15 maximum
Weight	50 lbs., fully loaded

ORDERING INFORMATION

A Model 7292A FDM Distribution Amplifier System consists of a mainframe, a power supply, and up to 15 amplifier cards. Each standard amplifier has one input and six outputs, and has an input and output impedance specification of 50 ohms. The mainframe, power supply and amplifiers are purchased separately as needed to configure a specific system. 75 or 93 ohm impedance are optionally available. When ordering, please specify:

7292A-MF	Mainframe (no power supply)
7292A-AM	FDM Distribution Amplifier (Plug-in)
Option Z05	50 ohm Input Impedance
Option Z07	75 ohm Input Impedance
Option Z09	93 ohm Input Impedance
Option Z25	50 ohm Output Impedance
Option Z27	75 ohm Output Impedance
Option Z29	93 ohm Output Impedance

7292A-PS	Power Supply
Option P01	400 Hz ac Input
Option T01	Designed to Meet TEMPEST Requirements (not available with option P01)
7292A-BP	Blank Panel
7292A-EC	Extender Card

WARRANTY

All of Reaction Instruments' equipment is warranted for one year, except for damage caused by accident or misuse, provided the equipment is returned for repair to the plant in Herndon, VA

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