



FEATURES

- DC TO 8 MHz Bandwidth
- DC to 30 MHz Bandwidth - Option
- Rated Output - +20 dBm
- 15 Amplifiers per Chassis
- Six Outputs per Amplifier

DESCRIPTION

The Model 7298 Video Line Driver Amplifier System houses as many as 15 dc-coupled distribution amplifiers in a single 5-1/4-inch high mainframe. Each amplifier provides six matched outputs for a video input signal. The half-power bandwidth exceeds 8 MHz and a gain of up to 20 dB can be obtained within the rated output of +20 dBm.

Each amplifier is configured as a front panel plug-in module with individual Gain and DC Offset controls as well as Overload and Signal Present LED indicators. The power supply is also a modular plug-in unit. The unit is mechanically designed to provide exceptional EMI/RFI protection.

SPECIFICATIONS

Number of Outputs per Amplifier	Six
Impedance (input and output)	50 ohms - Standard 75 or 93 ohms - Optional
Return Loss (input and output)	> 20 dB
Group Delay Variation	±2.5 ns
Frequency Range	dc to 8 MHz - Standard dc to 30 MHz - Optional
Gain Adjustment	-5 dB to +20 dB
Isolation (channel to channel)	60 dB
Input Voltage Level	0.05 to 10 Vp-p
Rated Output	6 Vp-p (+20 dBm)
DC Offset Control	Output offset zero
Connectors (each amplifier)	
Input	BNC, one on rear panel

Output Controls (each amplifier)	BNC, six on rear panel GAIN, DC Offset
Indicators (each amplifier)	Overload LED Signal Present LED
Power	115/230 Vac, 47-63 Hz, 125 watts - Standard 115/230 Vac, 47-420 Hz - 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)

Specifications may vary depending on options selected and are subject to change without notice.

ORDERING INFORMATION

A Model 7298 Video Line Driver Amplifier System consists of a mainframe, a power supply, and up to 15 plug-in amplifier cards. Each standard amplifier has a frequency range of dc to 8 MHz, one input and six outputs, and 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. Frequency extension to 30 MHz and 75 or 93 ohm impedance are available as options. When ordering, please specify:

7298-MF	Mainframe (no power supply)
7298-AM	Video Line Driver Amplifier (Plug-in)
Option R01	Extended Frequency Range (to 30 MHz)
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
7298-PS	Power Supply
Option P01	400 Hz ac Input
Option T01	Designed to Meet TEMPEST Requirements (not available with option P01)
7298-BP	Blank Panel
7298-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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