



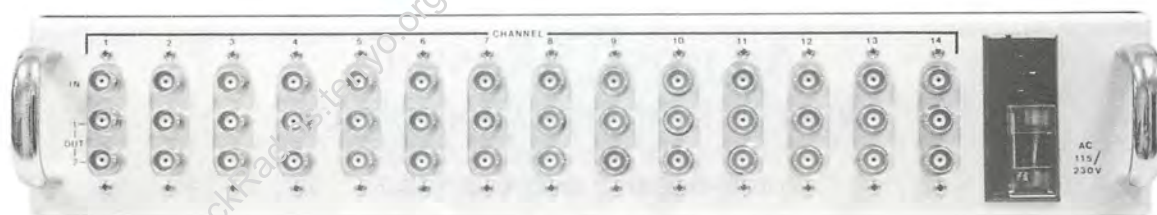
FEATURES

- 14 Channels
- Two Isolated Outputs Per Channel
- Bandwidth: 200 Hz to 6 kHz
- Low Noise: 50 μ Vrms
- Gain Stability: 0.5 dB
- Balanced Input/Outputs

DESCRIPTION

The Model 553A Audio Distribution Amplifier is a general purpose unit containing 14 independent audio amplifiers. Each amplifier provides dual isolated outputs with a 1 dB frequency response extending below 200 Hz to above 6 kHz. The design of the amplifier has been optimized for signal processing in systems employing multiple FDM demodulators. Gain stability, isolation and group delay are carefully controlled parameters in this unit.

The unit is housed in an EIA standard 3-1/2 inches high, rack-mount, chassis. Special amplifier housings and power supply filters provide exceptional EMI integrity.



Model 553A, Rear Panel

SPECIFICATIONS

Number of Channels	14
Outputs Per Channel	two
Frequency Response (1dB)	200 Hz - 6 kHz
Input Signal Level	1 Vrms, maximum
Input Impedance	600 ohms, balanced differential
Output Impedance	600 ohms, balanced, transformer-coupled
Return Loss - Input and Output	> 20 dB
Isolation - Output to Output	> 60 dB
Isolation - Output to Input	> 70 dB
Gain	0 dB, nominal
Gain Stability	± 0.5 dB

Gain Ripple	± 1 dB
Noise	< 50 μ Vrms
Group Delay	
200 - 300 Hz	1000 μ s, maximum
300 - 400 Hz	500 μ s, maximum
400 - 3400 Hz	200 μ s, maximum
3400 - 3500 Hz	500 μ s, maximum
3500 - 3600 Hz	1000 μ s, maximum
Controls	Power ON/OFF (illuminated)
Connectors	Tip-ring-sleeve phone jack
Power	115/230 VAC ± 10%, 47 to 63 Hz, 15 W, nominal
Temperature-Operating Style	0° to 50° C
	3-1/2 inches high, 18-1/2 inches deep, suitable for mounting in an EIA standard 19-inch rack
Weight	20 lbs.

Specifications are subject to change without notice.

ORDERING INFORMATION

A Model 553A Audio Distribution Amplifier provides 14 independent audio amplifiers with a 1 dB frequency response of 300 Hz to 4 kHz, and with two balanced outputs per amplifier. When ordering, please specify:

553A Audio Distribution Amplifier

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

Adams Russell
REACTION INSTRUMENTS, INC.
475 Springpark Place, Herndon, VA 22070
(703) 471-6060 FAX (703) 471-4847

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