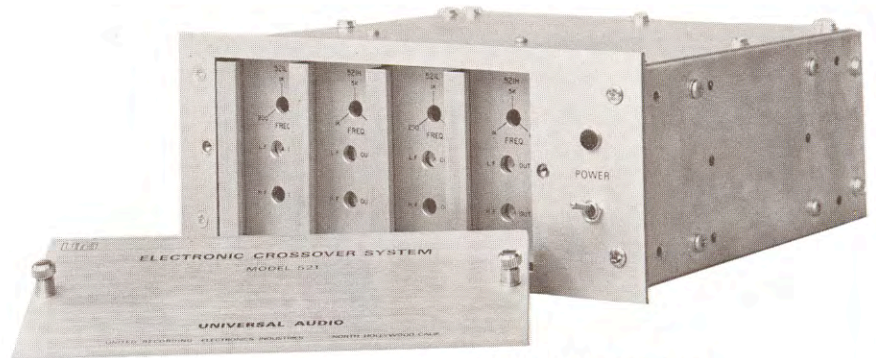


UNIVERSAL AUDIO ELECTRONIC CROSSOVER SYSTEMS

MODELS
521 L 521 H
518 L 518 H
521 P

APPLICATIONS:

- Bi-amplification of two-way speaker systems.
- Tri-amplification of three-way speaker systems.
- Employed ahead of power amplifiers. Increases efficiency and performance of loudspeaker systems.



**521 P chassis with
4 crossover cards**

The 521/518 series Electronic Crossover Systems from UREI are radically different in concept and design from previous "active crossover networks."

Main elements of the system are the L and H cards, which differ only in their tuning ranges. Crossover frequencies are continuously tunable: 200 Hz to 2 kHz in the L; 1 kHz to 10 kHz in the H. This eliminates any changing of fixed components to establish optimum crossover frequencies for any two-way or three-way speaker system. All inputs and outputs are transformer isolated to avoid grounding problems, although provision is made to bypass any transformer if desired.

Filter characteristic of the 521 cards is 2 pole Butterworth, yielding 12 dB per octave or 40 dB per decade attenuation rate with essentially perfect frequency flatness within the passband. Filter characteristic of the 518 is 3 pole Butterworth yielding 18 dB per octave or 60 dB per decade attenuation.

The 521P holds four crossover cards, and contains its own internal power supply. The unit may be rack mounted, using the SR-21 rack-mounting adaptor. Or, two units may be rack-mounted in one 3½" rack space by using the DR-21 rack mount hardware.

As shown on the inside pages, one 521P with four cards can be used for stereo 3-way (tri-amp) or Quad 2-way (bi-amp) applications.

Optionally, for large installations which may require more than eight cards, they may be installed in UREI 1109CC card cages, and an external power supply used. Eleven cards may be mounted in one 1109CC, occupying 3½" or rack space.



**ONE 521-P IN ACCESSORY
SR-21 RACK MOUNT**



**TWO 521-P's IN ACCESSORY
DR-21 RACK MOUNT**



UNITED RECORDING ELECTRONICS INDUSTRIES

8460 SAN FERNANDO RD., SUN VALLEY, CALIFORNIA 91352

UREI SINV TELEX 65-1389

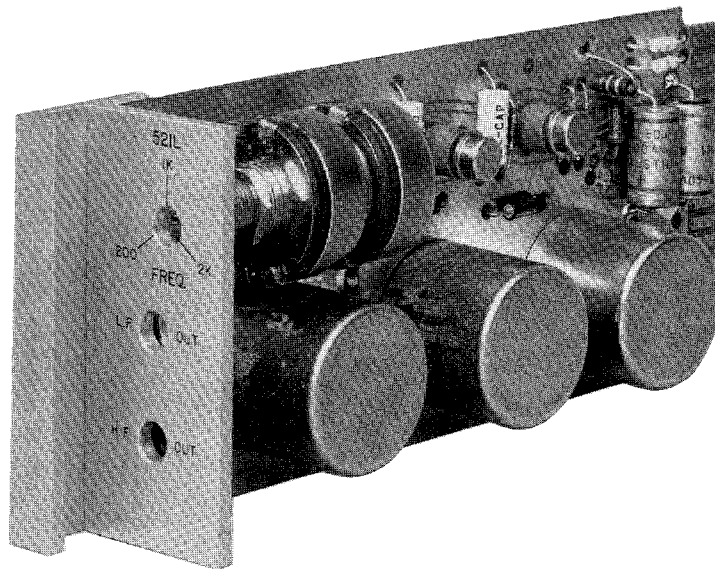
(213) 767-1000

UREI company

MODELS
518/521

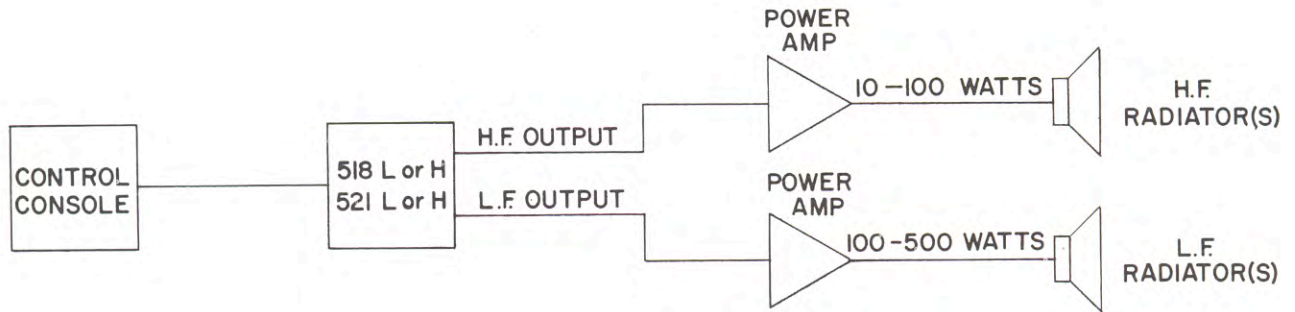
OPTIONS AND ORDERING INFORMATION:

518/521 L
or
518/521 H
Card

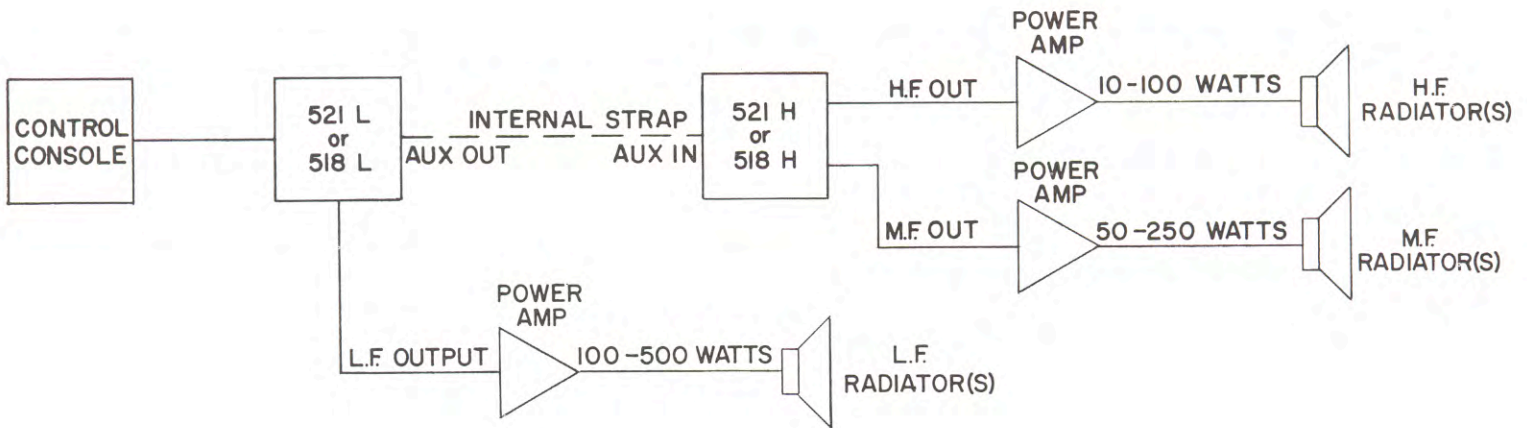


- 521-L For crossover frequencies from 200 Hz to 2 kHz in two-way systems, or for low-frequency crossover in three-way system; filter slope 12 dB per octave.
- 518-L Same as 521-L except 18 dB per octave.
- 521-H For crossover frequencies from 1 kHz to 10 kHz, or for high-frequency crossover in 3-way systems.
- 518-H Same as 521-L except 18 dB per octave.
- 521-P Mainframe for mounting 4 521 or 518 cards. Contains power supply to operate from 110/220 VAC, 50/60 Hz mains.
- DR-21 Rack mounting hardware for side-by-side mounting of two 521-P in standard R.E.T.M.A. rack.
- SR-21 Rackmounting hardware for single mounting one 521-P.
- 1109CC 3½" X 19" card cage with removable front cover, to hold up to 11 521 or 518 cards. Includes pre-mounted mating connectors.

TYPICAL SINGLE-CHANNEL 2-WAY (BI-AMP) SYSTEM

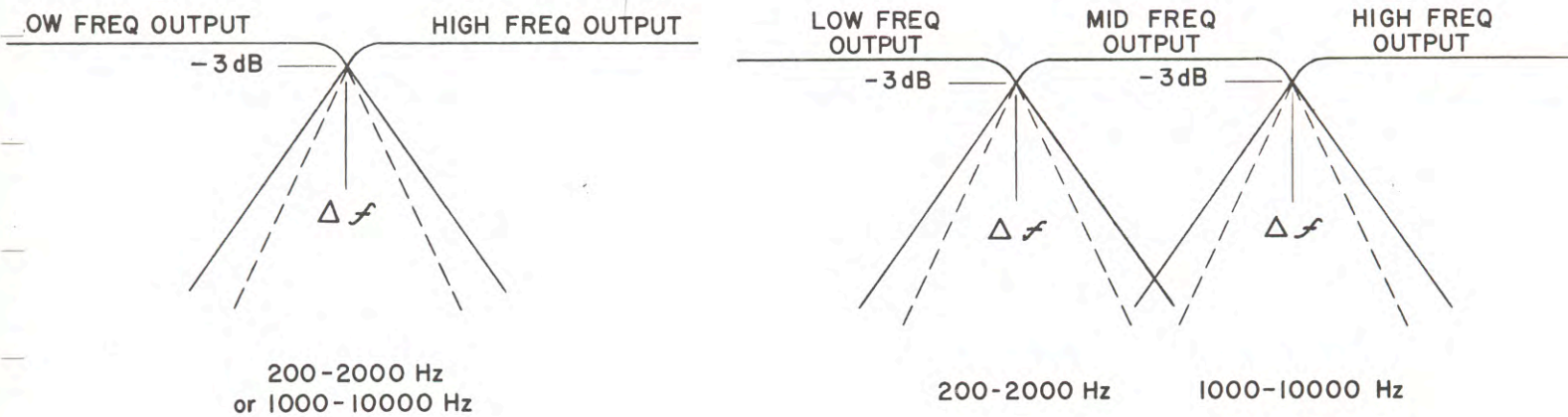


TYPICAL SINGLE-CHANNEL 3-WAY (TRI-AMP) SYSTEM



TYPICAL RESPONSE CURVES

SOLID LINE MODEL 521 (12 dB/OCTAVE)
 DOTTED " " 518 (18 dB/OCTAVE)



2-WAY SYSTEM

3-WAY SYSTEM

SPECIFICATIONS

Gain	:	Unity (0 dB) with individual output attenuators.
Operating Level	:	Nominally +4 with 16 dB of headroom.
Distortion	:	Less than 0.24% THD at +10 dBm input, 30 Hz to 15 kHz.
Noise	:	Typically less than -100 dBm at output terminals. Guaranteed less than -90 dBm. (15.7 kHz equivalent noise bandwidth).
Frequency Response	:	Within ± 0.5 dB in passband, -3 dB at crossover frequency. 521L & H 12 dB per octave out of passband; 518L & H 18 dB per octave out of passband.
Tuning Range	:	518L, 521L, 200 Hz to 2 kHz. 518H, 521H, 1 kHz to 10 kHz.
Input Impedance	:	600 ohms bridging (should be fed from 600 ohms or less).
Output Impedance	:	Nominally 1000 ohms (designed to be bridged).
Power Consumption	:	± 15 V, 15 mA per card. 521-P 110-125 VAC 1/8 A, or 220-250 VAC 1/16 A 50-60 Hz (with 4 cards).
Thermal Environment	:	Up to 130° F (+55°C) without derating.
External Connections	:	Barrier Strips on back panel (521-P).
Panel Finish	:	Clear anodized brushed aluminum.
Dimensions (521-P)	:	3½" High, 8½" Wide, 10" Deep (89 X 216 X 254 mm)
Weight (521-P)	:	7 pounds, 3.18 kg.
Shipping Weight (521-P)	:	10 pounds, 4.54 kg.