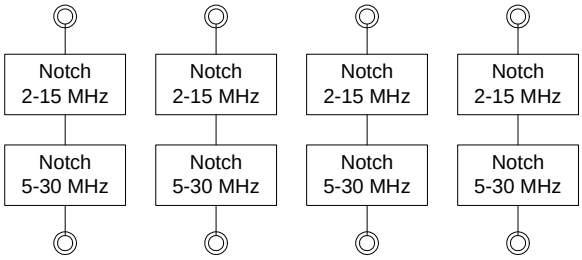
MODEL 169
Four Channel Programmable HF Notch Filter

Features:

- 8 Independently-Programmable HF Notch Filters Arranged in 4 Channels
- Bypass Mode Allows Removal of Filters
- Front Panel Display to View and Change Settings
- Multiple Remote Control Formats Supported
- Replaceable Front Panel Power Supply Module

The model 169 is intended to reduce radio front end desensitization by selectively attenuating strong signals. The model 169 contains eight independent programmable HF Notch Filters arranged in four channels. Each channel has a low band (2-15 MHz) and a high band (5-30 MHz) notch filter. Any notch may be set to any frequency (f_N) in its appropriate HF sub band. A bypass mode allows for the removal of the filters.



The unit's front panel display permits local users to view and change notch frequencies, as well as checking the health and status of the chassis. All functions and status are also accessible through the remote interfaces. A simple ACSII literal based command set allows quick and easy remote control of the unit. The unit also features a user replaceable power supply module (front access).

Electrical Characteristics:

Frequency Range:	2.0 – 30.0 MHz
Insertion Loss:	0.5 dB
Frequency Resolution:	50 KHz
Frequency Accuracy:	± 0.5%
Notch Width (MHz), 20 dB depth:	$f_W = .22 \times (f_N / 30 + 1)$
Notch Depth:	25 dB min.
Spurious Output:	None
Frequency Switching Speed:	10 mS
Intermodulation Distortion OIP[2]:	+100 dBm
Intermodulation Distortion OIP[3]:	+50 dBm
Maximum No Damage Level:	+43 dBm
Noise Figure:	0.5 dB
Return Loss (not at f_N):	-18 dB
Primary Power:	115/230VAC 50/60Hz, 50 watts
Remote Interfaces:	RS-232 / RS-574 (DTE) RS-422 / RS-485 10/100 BaseT (RJ45)

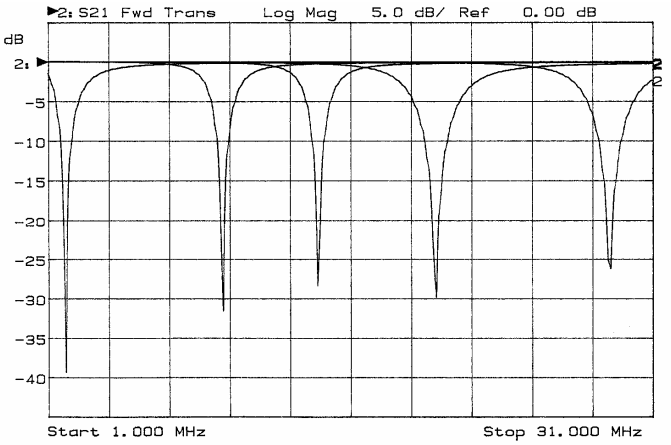
Mechanical Characteristics:

Size:	2U (3.5") H x 19" W x 20" D 89mm H x 482.5mm W x 508mm D
RF Con-	BNC female

Environmental:

Operating Temperature: 0° to +50° C

Notches shown at five different frequencies:



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