



FEATURES

- 20 to 500 MHz
- Eight Filters
- IEEE-488 Control - Optional
- Direct Receiver Interface
- TEMPEST - Optional

DESCRIPTION

The Model 6851 VHF Preselector is an 8 channel filter system, covering the 20-500 MHz band, with automatic filter selection using PIN diode switches. The unit is a companion to Reaction Instruments' Model 685A VHF Receiver, however, it is also optionally available for use with other commercial surveillance receivers. The preselector may be operated optionally either manually from the front panel, under computer control, or with a direct receiver interface. Front panel LED's show which filter has been selected in either the Local or Remote Control modes.

The Model 6851 VHF Preselector is housed in a 1-3/4 inch half-rack chassis. Exceptional EMI/RFI integrity is provided, and a Tempest option is available.



Rear Panel with IEEE 488 Interface

Frequency Coverage 20-500 MHz

Filters

Number per Chassis Eight

Channel Response (Nominal) 1:3 (3 dB/30 dB)

Band	Pass Band Limits MHz
1	20-30
2	30-45
3	45-63
4	63-100
5	100-150
6	150-225
7	225-340
8	340-500

Pass-Band Ripple ± 1 dB
VSWR < 2:1

Input/Output Impedance 50 ohms
Insertion Loss 2 dB, nominal

Switch Control PIN diode
Manual - Standard
IEEE-488 - Optional

Connectors
RF Control Type N - rear panel
IEEE-488 - Optional

Controls - Front Panel Local/Remote - Optional
Filter Select
Bypass

Indicators Filter Selected - LED Indicator
Power 115/230 Vac, 47 to 63 Hz, 10 watts
EMI TEMPEST - Optional

Temperature - Operating Style 0° to 50° C
Half-rack chassis, 1-3/4 inch high x 20 inches deep, rack adapter available

Specifications are subject to change without notice.

ORDERING INFORMATION

A standard Model 6851 VHF Preselector is a manually controlled eight-channel filter system covering the 20-500 MHz frequency range. Control via IEEE-488 computer interface is optional.

6851 VHF Preselector
Option I30 IEEE-488 Interface

Option T01 Designed to meet TEMPEST requirements

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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OCTOBER 1988