

1/1/69 - 724.50

**DEMODULATOR  
 TYPE DM-4( )**



**TYPE DM-4B SHOWN**

**FEATURES**

The CEI Type DM-4( ) Demodulator is used in conjunction with several plug-in modules to provide AM, FM, CW, and Pulse reception from a 21.4-MHz IF input signal. The DM-4( ) is completely transistorized with a self-contained power supply which provides all necessary operating voltages, including operating voltages for the plug-in modules. The DM-4( ) will accept four modules in any of the following arrangements: four IFD modules; three IFD modules and one AGC module; or three IFD modules and a noise silencer module.

There are ten different IFD modules available for use with the DM-4( ). These modules have bandwidths ranging from 5 kHz to 8 MHz; see data sheet 724.56. The AGC-BC/( ) Box Car AGC and the AGC-PS/( ) Pulse Stretching AGC modules are also available; they are covered in data sheets 724.52 and 724.54. Information concerning the NS-101( ) Noise Silencer module may be found in data sheet 724.58. The IFD-LOG Logarithmic IF Amplifier is described in data sheet 724.55.

The DM-4( ) Demodulator is normally used as an element of an RS-125-( ) Receiving System (data sheet 199.50). In such a system, the DM-4( ) receives the 21.4-MHz IF output from a tuner and applies it to the plug-in modules. It provides five video and three audio output signals from the module selected for operation. The DM-4( ) also provides an AGC voltage which is furnished to control the gain of an associated tuner.

The DM-4 Series Demodulators have been furnished without the front-panel speaker, and with special inputs and/or outputs to satisfy particular requirements; please inquire for further details. Also, a test module, module extension cable, and module storage panel are offered for use with the DM-4( ); see data sheet 724.60.

**SPECIFICATIONS**

Input Frequency . . . . .	Operates from a 21.4-MHz IF input
Input Bandwidth . . . . .	±6 MHz
Plug-in Modules . . . . .	Accepts four simultaneously
Predetection Output . . . . .	21.4-MHz predetection signal from module in operation. Will produce 10 mV, minimum into a 50-ohm load for input levels above AGC threshold.

Audio Outputs . . . . .	Three: Rear apron terminal strip, and front panel speaker and phone jack. When used, phone jack disables speaker.
Audio Output Level . . . . .	100 mW, minimum, into a 600-ohm load
Audio Frequency Response . . . . .	200 Hz to 6 kHz at 3-dB points
Aural Enhancement . . . . .	Pulse stretcher included in audio amplifier for aural enhancement of pulse signals. Pulse stretcher has a rise time of 0.1 $\mu$ seconds and a decay time of 80 $\mu$ seconds.
Tracking Video . . . . .	0.5 volt rms into a 91-ohm load, with response from dc to 4 MHz.
Aux. A-Scan Output . . . . .	1 volt rms into 91-ohm load, with response from 10 Hz to 4 MHz.
High-Level Video Outputs . . . . .	Three: Analysis, Recorder, and Tracking Video. Each provides 3.0 volt rms into a 91-ohm load, with response from 5 Hz to 4 MHz.
AGC Monitor Output . . . . .	Delivers from 0 to -24 volts into a 10 k $\Omega$ load
Module Indicator Output . . . . .	Provides 1-volt incremental steps into a 10 k $\Omega$ load to indicate module in use.
Tuner AGC Output . . . . .	Delivers from 0 to -24 volts into a 10 k $\Omega$ load
Meters . . . . .	Tuning and signal strength; operate from module in use
Input Power . . . . .	105-125 volts, 48-62 Hz
Power Consumption . . . . .	20 watts, approximately, with four modules installed
Weight . . . . .	25 lbs., approximately, with four modules installed
Overall Size . . . . .	5.25 inches high, 19 inches wide, and 18 inches deep

PRICE: \$1,200.00

FOB Rockville, Maryland. Taxes extra where applicable.

Please contact us or our representative in your area for further information. Specifications and prices subject to change without notice