

FORTOP LTD

Manufacturers & Suppliers of Radio Equipment

SALES & ENQUIRIES

13 Cotehill Road
Werrington
Stoke-on-Trent
Staffs

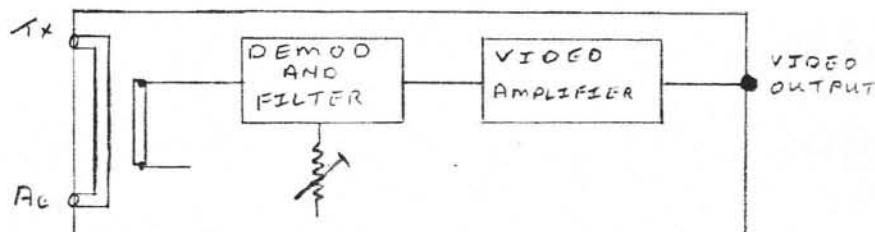
Tel: Ash Bank 2607

SERVICE

9 Ryebrook Grove
Chell
Stoke-on-Trent
Staffs

Tel: (0782) 825148

TVD100 VIDEO DEMODULATOR



SPECIFICATION

MAX POWER HANDLING.....UP TO 100WATTS PSP
AT 70cms

MIN SENSITIVITY.....5WATTS APPROX

MAX FREQUENCY.....USABLE AT 23cms

RF SOCKETS.....50ohm BNC STANDARD
(N TYPE OPTION)

VIDEO OUTPUT.....1v INTO 75ohm FOR
15WATT PSP AT 70cm

VIDEO OUTPUT SOCKET.....SO 239

POWER REQUIREMENTS.....12-13.5v @ 75mA

SIZE.....110mm x 60mm x 32mm

The TVD100 is a compact unit which will allow accurate Peak Sync Power (PSP) measurement of a video modulated RF signal and observation of that signal on an oscilloscope or video monitor.

The unit consists of a 50ohm stripline track between the two RF sockets, with a pick up stripline track positioned near to it. The RF signal that is induced in the pick up track is rectified and filtered to leave just the video modulating waveform. This video signal is then amplified up to a sufficient level to deliver 1 volt into a 75ohm termination. A special circuit is used so that the demodulator and video amplifiers are DC coupled throughout and this means accurate output power measurement is possible on an oscilloscope.

The video signal may be displayed on the scope for accurate setting of video gain and black levels on the TV transmitter or the complete picture can be displayed on a video monitor. The unit is suitable for the demodulation of monochrome or colour modulated TV signals.

The TVD100 is housed in a stove enamelled die-cast box with BNC RF connectors as standard, (N type sockets optional), SO 239 video output and feedthrough power connections. The striplines and amplifier circuitry is constructed on a quality double sided PCB.

Directors: S. J. Mitchell S. J. Whalley (Secretary)

Registered in England No. 1554751 Registered Office: Victoria Chambers, 48 The Boulevard, Tunstall, Stoke-on-Trent