

June 29, 2007

**Operational Description:
TAV-2000L**

The TAV-2000L power amplifier supplies a 2000-watt peak video signal with an aural carrier level of 13db below visual carrier (dBc) on any of the VHF television channels 2 through 6. Please note that channel selection must be made at time of order, as the transmitter or translator is calibrated and tested to the channel requested and is not field tunable. The TAV-2000L power amplifier is a modular solid-state 2000-watt broadcast amplifier utilizing readily available RF components wherever possible, thus enhancing the serviceability of the equipment. The TAV-2000L features ultra linear amplification and individual channel RF output bandpass filtering. The amplifier modules are stable for high reliability and long service life.

The amplification of the TAV-2000L is comprised of (2) TAV-1000L 1000-watt power amplifiers. Firstly, the output of the modulator or processor gets split into (2) RF signals of equal amplitude. Each output of the 2-way power divider is then fed into a TAV-1000L Power Amplifier. Inside the TAV-1000L, the signal is amplified by a 25-watt and a 200-watt driver stages. The output of which is then divided equally before going into (4) 400-watt final amplifiers, the 4 outputs are combined again producing 1000 Watts of output power. Finally, the outputs of each TAV-1000L are combined to generate 2000-watts of peak visual power in addition to an aural carrier.