

TXUP200 OPERATIONAL DESCRIPTION

The TXUP200 consists of the VEGA exciter and the AUTV/250LD amplifier assemblies.

The VEGA exciter produces a TV signal on the desired channel of operation from the video and audio supplied to the VEGA. Both video and IF signal processing occur to the signal before it is converted to the desired channel and amplified to a higher power.

The amplifier AUTV/250LD is an apparatus designed to be used as final power stage or driver for higher power amplifiers in the UHF TV band. It is able to supply a power of 250W (peak sync.) in class AB and is completely realized with LDMOS technology.

The power supply of the apparatus is given by a switching power supply for the RF power module and a traditional transformer for the control board. The protection board uses all the potential of a microprocessor to check all the parameters of the amplifier module and the voltage of the power supply.

An output band-pass filter provides for the attenuation of the spurious products. The final result is a compact apparatus, it is all inside a standard 19"-4U cabinet, with a very good price-to-quality ratio.