

BZ5T5000U
Application for FCC Certification
Modulator Input
5000 Watt UHF Translator

Operational Description

This application requests authorization for a video/audio input driven 5000 Watt translator, BZ5T5000U. The translator is driven directly by a color demodulator.

The intended use of the T5000U is to rebroadcast a television relay station or other legal source of video and audio.

The T5000U is a solid state translator designed to operate a 5000W sync peak visual RF power and 500W average aural single carried RF power.

The T5000U is self contained in a single cabinet with internal cooling fans. The simplicity of design, the employment of modular subassemblies and the use of standard components also enhance serviceability.

The specific unit tested for this application was on channel 25.

The modulator section of this translator will accept video from the television relay station, frequency spacing, deviation and other characteristics including distortion are therefore determined for the most part by the originating television station. It is anticipated that the translator will be driven directly by the demodulator output of an FM microwave repeater. No provision is made for tampering with or adjustment of the composite video or audio signal except for the depth of video and audio modulation.

The T5000U meets all requirements for unattended operation. A description of the automatic shutdown and control circuitry can be found in the user's manual.

Station identification requirements will be supplied by the originating station.

Wiring, shielding and construction are in accordance with accepted principles of good engineering practice. The translator's construction is such that all hazardous components are enclosed or protected against accidental contact by operating personnel.