BZ5MXD1U
Application for FCC Certification
1W Digital Television Translator

Parts List and Tune-up Procedure:

The following is the procedure for changing the channel of the MXD1U translator. Channel change involves retuning of the output filter (stringent mask applications only) and recalibration of the output meter.

The amplifier meter was calibrated to read 100% (top scale) at full power and at the channel specified when the transmitter was tested at the factory. If the amplifier is to operate at a channel other than that of the factory test channel, the metering will require re-calibration. Refer to the transmitter service manual for the specific calibration procedures. The power meter setting is a channel dependent calibration.

1. Connect the transmitter output to a 50 ohm dummy load or the antenna. The transmitter uses a 50Ω type N connector for its output. An inline wattmeter with a selection of detector elements suitable for digital signals should be used for measurements.
2. Connect the 115VAC mains input. This AC circuit should be rated for 15 amperes, and should be supplied through a slow-tripping breaker or time delay fuse..
3. Switch `ON' the amplifier.
4. The amplifier is equipped with VSWR protection which has been factory set. To set the correct level out of the channel processor or exciter, adjust the Transcoder level control so that the output of the amplifier is 100%.

If it is required to meet output emissions as defined by the the stringent mask, the output filter must be retuned as per the frequency response sweeps attached:

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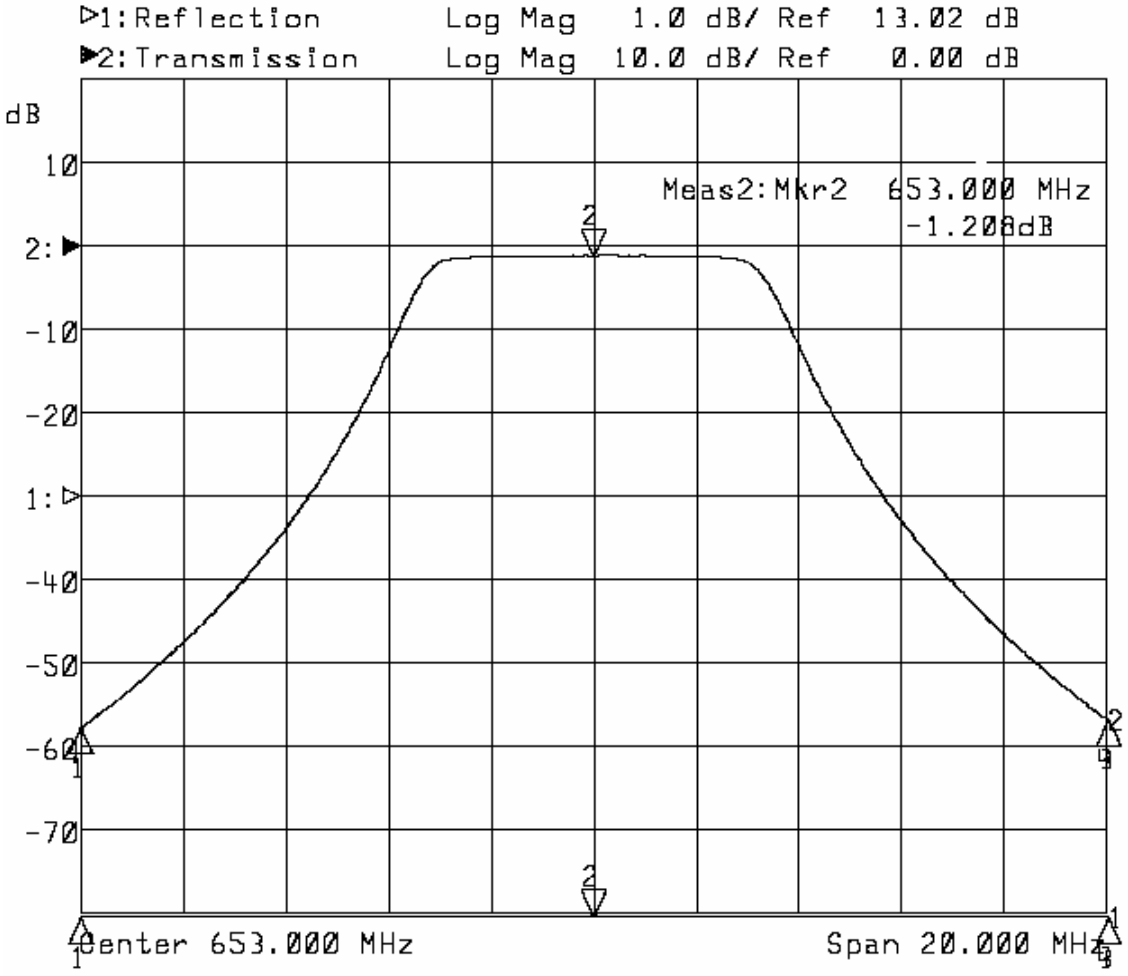
Stringent Mask Filter:

In band Response



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Stringent Mask Filter:

Return loss