

BZ5RXI5U

Application for FCC Certification  
Regenerative Digital Television Translator

Parts List and Tune-up Procedure:

The tune-up procedure for this transmitter is completely detailed in the operations manual (attached as a separate document in this submission). The procedure for changing the channel is essentially as follows:

1. The transmitter output filter must be retuned for the new channel. Typical filter response characteristics are shown in figures 1 and 2 below.
2. The transmitter must be connected, through the output filter to a 50 ohm dummy load. An inline wattmeter with a selection of detector elements should be used for measurements.
3. The modulator output frequency must be set to the new channel frequency, and the output level set to a low level.
4. Connect the 115VAC mains input.
5. Switch `ON' the transmitter
6. The transmitter is run up to power according to the procedure in the operations and maintenance manual. At this point, all meters are calibrated, VSWR protection is set up, and AGC levels are adjusted for nominal operation.
7. Finally, correction values for non-linear predistortion, and linear predistortion (filter compensation) should be adjusted for optimal performance.

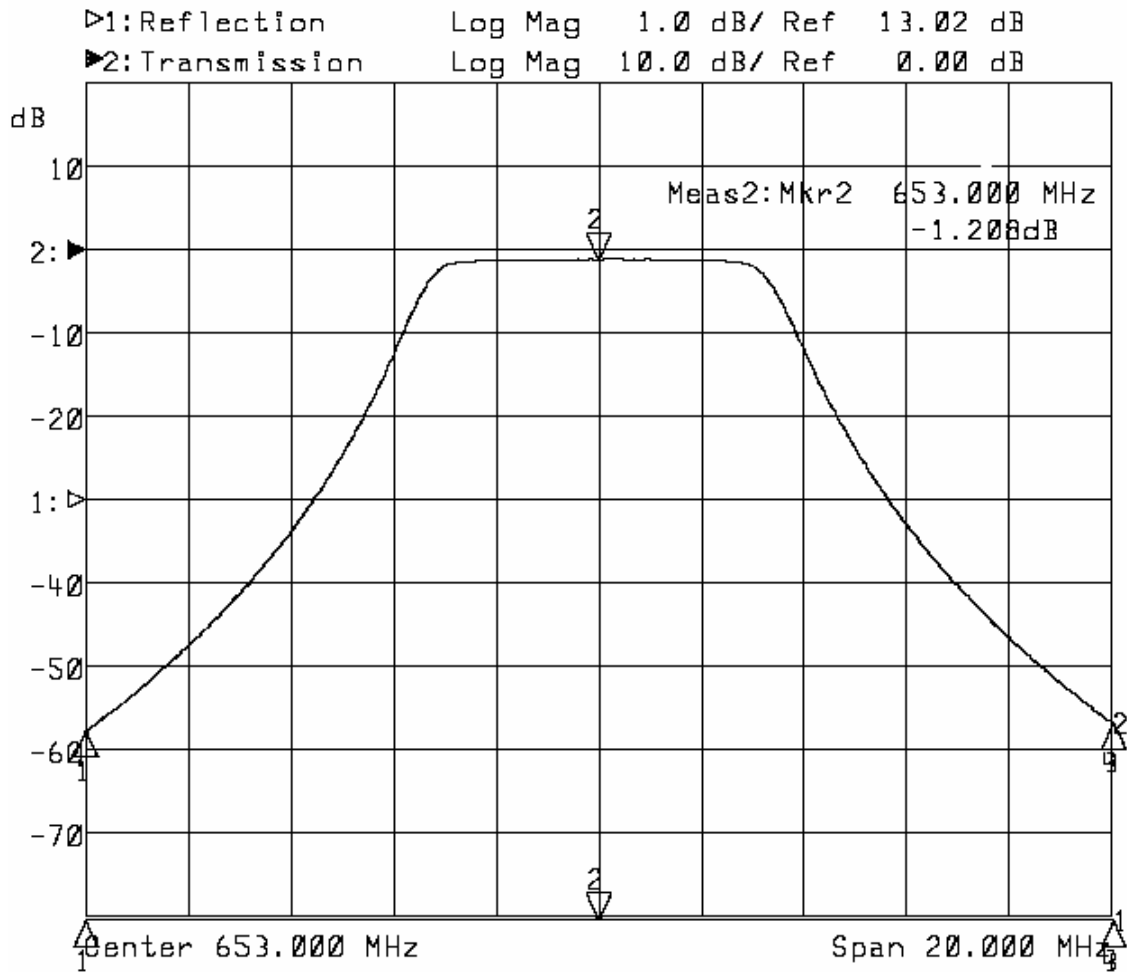
The output filter must be retuned as per the frequency response sweeps attached:

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Stringent Mask Filter:

In band Response



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Stringent Mask Filter:

Return loss

