

BZ5MXD30U
Application for FCC Certification
Regenerative Digital Television Translator

Power Measurements

The translator's power meter circuit uses a detected sample from a coupler on the output. An averaging detector circuit provides the DC level to drive the translator's output level meter.

The translator was connected to a test load through a calibrated directional coupler. The spectrum analyzer's "Channel Power" function was used to measure the average power level of the signal as sampled through the directional coupler. (see Fig.)

Measured power: 1.3dBm
Coupling loss: 43.5dB
Power: 44.8dBm
Power = 30.2 Watts

