

BZ5MXD1U

Application for FCC Certification

1W 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: -15.3dBm

Coupling loss: 45.3dB

Power: 30.0dBm

Power = 1 Watt

