

BZ5MXD10V

Application for FCC Certification

10W 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: -3.5dBm

Coupling loss: 36.5dB

Power: 40.0dBm

Power = 10 Watts

