

BZ5MXD5U  
Application for FCC Certification  
5 Watt 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: 8.8 dBm

Coupling loss: 28.2 dB

Attenuator @ i/p to  
spectrum analyzer 0 dB

Power: 37 dBm

Power = 5 Watts

