

BZ5MXI1503U  
Application for FCC Certification  
2000 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: 13.9dBm  
Coupling loss: 43.1 dB  
Attenuator @ i/p to spectrum analyzer 6 dB  
Power: 63 dBm  
Power = 2000 Watts

