

BZ5MXI201UD
Application for FCC Certification
100 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: 6.9dBm
Coupling loss: 43.5 dB
Attenuator @ i/p to
spectrum analyzer 0dB
Power: 50.4dBm
Power = 109.6 Watts

