

BZ5MXI101V
Application for FCC Certification
30 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: -1.8dBm

Coupling loss: 40.6 dB

Attenuator @ i/p to
spectrum analyzer 6dB

Power: 44.8dBm

Power = 30 Watts

