

BZ5MXI101UD
Application for FCC Certification
50 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: 12.2 dBm

Coupling loss: 31.8 dB

Attenuator @ i/p to
spectrum analyzer 3dB

Power: 47 dBm

Power = 50 Watts

