

BZ5MXI802UD
Application for FCC Certification
325 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 figure below).

Measured power: 3.00dBm
Coupling loss: 52.50dBm
Attenuator @ i/p to spectrum analyzer: 0 dB

Power: 55.5dBm

Power: 355 Watts

