

BZ5DTR10SC

Application for FCC Certification

10 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: -15.1dBm
Coupling loss: 30 dB
Attenuator and cable loss @ i/p to spectrum analyzer 5.1 dB

Power: 20 dBm

Power = 10 Watts

