

W232DU
Transmitter Power Output Calculation
Clarkesville, GA
July 2020

Given:

ERP = 250 Watts
Transmission Line Efficiency 82%
Directional Antenna Gain = .82

250 Watts ERP divided by the antenna gain of .82 = an antenna input of 304.87 Watts

304.87 Watts divided by the transmission line efficiency of .82 = a TPO of 371.8 Watts.

371.8 rounds down to 370 Watts Transmitter Power Output per Section 73.212(a).

Note:

It is coincidence that the transmission line is 82% efficient and the directional antenna gain is .82.
This is not a typographical error.

Bromo Communications, Inc.
