

Translator W267DD

Vega Baja, PR

April 2022

Transmitter Power Output Calculation

Given:

ERP 250 Watts

Antenna Gain **1.67**

PSIFMT-2A-6dB-0.75 Wave Spaced

Transmission Line Efficiency **89%**

75 feet of 1/2 inch foam-filled transmission line

250 Watts ERP divided by the antenna gain of 1.67 = an antenna input of 149.7 Watts.

149.7 Watts divided by the transmission line efficiency of 89% = a TPO of 168.2 Watts.

Per Section 73.212(a) of the Commission's rules, 168.2 Watts rounds to 170 Watts (0.17 KW) Transmitter Power Output.

Bromo Communications, Inc.