Transmitter Power Output Calculation
Translator W290DG

Channel 290D – 105.9 MHz
0.250 kW ERP – 168.2 m COR AMSL
Dothan, Alabama
April 2022

Given:

Effective Radiated Power: 0.250 kW
Antenna Gain (Multiplier): 1.0
Transmission Line Efficiency: 75.55%
Jumper Efficiency: 99.40%

Calculation:

0.250 kW Effective Radiated Power ÷ 1.0 Antenna Gain = 0.250 kW Antenna Input Power

0.250 kW Antenna Input Power ÷ 0.7555 Transmission Line Efficiency ÷ 0.9940 Jumper Efficiency = 0.3329 kW Transmitter Power Output*

* 0.3329 kW Transmitter Power Output rounds to 0.330 kW per §73.212(a).

Bromo Communications, Inc.