Transmitter Power Output Calculation
W249DB (Formerly W248BJ)
Channel 249D – 97.7 MHz
0.095 kW ERP (DA) – 1133 m COR AMSL
Hiawassee, Georgia
October 2015

Given:

Effective Radiated Power: 0.095 kW

Antenna Power Gain (Multiplier): 5.0

Transmission Line Efficiency: 90.5%

Calculation:

0.095 kW Effective Radiated Power ÷ 5.0 Antenna Power Gain = 0.019 kW Antenna Input Power

0.019 kW Antenna Input Power ÷ 0.905 Transmission Line = 0.02099 kW Transmitter Power Output*

* 0.02099 kW rounds to 0.021 kW per Section 73.212(a)

Bromo Communications, Inc.