

Transmitter Power Output Calculation

W296CX

Channel 296D – 107.1 MHz
0.055 kW ERP – 338 m COR AMSL

Winder, Georgia

July 2017

Given:

Effective Radiated Power: 0.055 kW

Directional Antenna Gain (Multiplier): 2.618

Transmission Line Efficiency: 75.0%

Calculation:

0.055 kW Effective Radiated Power \div 2.618 Directional Antenna Gain = 0.021 kW Antenna Input Power

0.021 kW Antenna Input Power \div 0.75 Transmission Line Efficiency = 0.028 kW Transmitter Power Output