

## Transmitter Power Output Calculation

### Translator K248DM

Channel 248D – 97.5 MHz

0.250 kW ERP – 609 m COR AMSL

Huntsville, Arkansas

January 2019

Given:

Effective Radiated Power: 0.250 kW

Antenna Gain (Multiplier): 0.9

Transmission Line Efficiency: 77.1%

Calculation:

$0.250 \text{ kW Effective Radiated Power} \div 0.9 \text{ Antenna Gain} = 27778 \text{ kW Antenna Input Power}$

$0.27778 \text{ kW Antenna Input Power} \div 0.771 \text{ Transmission Line Efficiency} = 0.360 \text{ kW}$   
Transmitter Power Output