

Transmitter Power Output Calculation

K285HA (formerly K246AQ)

Channel 285D – 104.9 MHz

0.042 kW ERP – 2366 m COR AMSL

Cottonwood, Arizona

January 2017

Given:

Effective Radiated Power: 0.042 kW

Antenna Gain (Multiplier): 1.0

Transmission Line Efficiency: 89.75%

Calculation:

0.042 kW Effective Radiated Power \div 1.0 Antenna Gain = 0.042 kW Antenna Input Power

0.042 kW Antenna Input Power \div 0.8975 Transmission Line Efficiency = 0.0468 kW
Transmitter Power Output*

* 0.0468 kW Transmitter Power Output rounds to 0.047 kW per §73.212(a).