

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:

$0.042 \text{ kW Effective Radiated Power} \div 1.0 \text{ Antenna Gain} = 0.042 \text{ kW Antenna Input Power}$

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

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