

ERP/TPo/Coax Calculator

Version 3.2 2007-04-26 saw

Instructions: Fill in **red** values, view results
See "Antenna Gains" sheet for antenna efficiencies

Call sign: **WHWG**
City of License: **TROUT LAKE, MI**
Date: **8/24/2009**
Your Name: **RICH GREEN**

Solve for **TPo**
Operating Frequency **89.9** MHz
Coax Type **Andrew 7/8" foam**
Model **LDF5-50A**
kW Rating **7.9** (at selected freq)
dB loss per 100' **0.3439** (at selected freq)
Efficiency per 100' **0.9239** (at selected freq)
Tpo **1.000** kW
Coax Length **219.0** Feet
Filter(s) **1.000**
Other Efficiency factors **0.990** (jumpers, etc)
Antenna Gain **1.000** (efficiency)
ERP **1.000** kW
Power at antenna input **1.000** kW
Overall coax efficiency **0.841**

Result: TPo = **1.201 kW**

TPo Percentages

90% 1.081 kW
92% 1.105 kW
94% 1.129 kW
96% 1.153 kW
98% 1.177 kW
100% 1.201 kW
101% 1.213 kW
102% 1.225 kW
103% 1.237 kW
104% 1.249 kW
105% 1.261 kW

NOTES:

Per Rich Green

SHIVELEY 6812-2