

Transmitter Power Output Calculations:

ERP/TPo/Coax Calculator		
Instructions: Fill in red values, view results		
See "Antenna Gains" sheet for antenna efficiencies		
Call sign:	K266CN	
FIN:		
City of License:	Marysville, UT	
Date:	12/18/2019	
Your Name:	Beau Lund	
Solve for	TPo	
Operating Frequency	101.1	MHz
Coax Type	Eupen 7/8" foam	
Model	EC5-50	
kW Rating	8.2	(at selected freq)
dB loss per 100'	0.3557	(at selected freq)
Efficiency per 100'	0.9214	(at selected freq)
TPo	1.000	kW
Coax Length	75.0	Feet
Filter(s)	0.813	
Other Efficiency factors	0.991	(jumpers, etc)
Antenna Gain	1.400	(efficiency)
ERP	0.250	kW
Power at antenna input	0.179	kW
Overall coax efficiency	0.940	
Result: TPo =	0.236 kW	
NOTES: 75 ft Coax Rosenberger 7/8 AAT C-IR-2-3-2K 6 Ft, 1/2 Inch Jumper Nicom BKY3P - Slant CP		