



FET ENGINEERING

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CBRE, CBNT

- DIGITAL
- ANALOG
- RF

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TPO Worksheet

Station WCFY-LP
Location Evansville, IN
Frequency 99.1

Antenna Make Shively
Antenna Model 6812-1
Antenna Gain(Power) 0.46
Antenna Gain(dB) -3.37242 dB

Coax Make Andrews
Coax Model LDF4-50A
Coax Length (ft.) 265 feet
Loss/100'(dB) this frequency 0.6521 dB
dB Loss this length 1.728065 dB
Power Loss this Length 1.488698 kW
Line %efficiency 67.17281 %

ERP(kW) 0.1 kW
ERP (dBK) -10 dBK
Antenna Input Power Required 0.217391 kW

TPO Required **0.32363 kW**
ERP(dBK)+Line loss(dB)-Antenna Gain(dBK) -4.89951 dBK

TPO Required (Alternative Calculations)

Antenna Input Power/Line Eff *100 0.32363 kW
ERP/Antenna Gain/Line Eff*100 0.32363 kW

CFR-47 73.212 rounded TPO Value **0.32 kW**