K222GK TPO Calculation

ERP = 0.099 kW (-10.04 dBk)

Antenna Gain = -0.60 dBd

Coaxial Line Model = LDF4-50A Heliax

Line Attenuation/100 feet = 0.63 dB

Line Length = 190 feet

Total Line Loss = $(\frac{0.63\ dB}{100\ feet})$ x (190 feet) = 1.20 dB

TPO (dBk) = ERP (dBk) - Antenna Gain (dBd) + Line Loss (dB)

= -10.04 – (-0.60) + 1.20

= -8.24 dBk

TPO (kW) = $10^{\frac{-8.24}{10}}$

= 0.150 kW