

Options

Solve For: ☒ TPO ☐ ERP

Antenna Input: ☒ End fed ☐ Center Fed

Edit Antenna Database

Transmission Line FM Mid-Band Average Power Rating is 3.49kW

User Input

ERP: 01 kW

Frequency: 96.5 MHz

Center of Radiation (COR) - AGL: 66 ft 20.1 m

CA2-CP Antenna

Additional Losses: 0 dB

Distance, Transmitter to Tower: 50 ft 15.2 m

Andrew LDF4-50A, 1/2" Foam Heliax Trans. Line

Calculated Results

Antenna Power Gain 1.259

Antenna Field Gain 1.1221

Ant. FI @ 1 mi./1kW 154.394 mV/m

Antenna Input Power .008 kW

Line Attenuation/100 ft .6486 dB

Power Loss in Coax .002 kW 84.1 % Eff

TPO .010 kW

Tx Line Length 116 ft (35.4 m)

Minimum Tower Aperture 11 ft (3.4 m)

Top Bay Elevation - AGL 66 ft (20.2 m)

Antenna Length 1 ft (0.2 m)

Bottom of Antenna - AGL 66 ft (20 m)

This Software is Provided for Planning Purposes Only