

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: 106.7 MHz

Center of Radiation (COR) - AGL: 134 ft 40.9 m

1 Bay / Generic / Full-Wave Spacing Antenna

Additional Losses: 1.5 dB

Distance, Transmitter to Tower: 25 ft 7.6 m

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

Calculated Results

Antenna Power Gain 0.4611

Antenna Field Gain .679

Ant. Fl @ 1 mi./1kW 93.436 mV/m

Antenna Input Power .022 kW

Line Attenuation/100 ft .6842 dB

Power Loss in Coax .018 kW 55.1 % Eff

TPO .040 kW

Tx Line Length 159 ft (48.5 m)

Minimum Tower Aperture 11 ft (3.4 m)

Top Bay Elevation - AGL 134 ft (40.9 m)

Antenna Length 1 ft (0.2 m)

Bottom of Antenna - AGL 134 ft (40.8 m)

This Software is Provided for
Planning Purposes Only!