

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: 95.9 MHz

Center of Radiation (COR) - AGL: 56 ft 17.1 m

1 Bay / Generic / Full-Wave Spacing Antenna

Additional Losses: 1.5 dB

Distance, Transmitter to Tower: 30 ft 9.1 m

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

Calculated Results

Antenna Power Gain 0.4611

Antenna Field Gain 679

Ant. FI @ 1 mi./1kW 83.436 mV/m

Antenna Input Power .022 kW

Line Attenuation/100 ft .6465 dB

Power Loss in Coax .013 kW 62.3 % Eff

TPO .035 kW

Tx Line Length 86 ft (26.2 m)

Minimum Tower Aperture 11 ft (3.4 m)

Top Bay Elevation - AGL 56 ft (17.1 m)

Antenna Length 1 ft (0.2 m)

Bottom of Antenna - AGL 56 ft (17 m)

This Software is Provided for
Planning Purposes Only