

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: 0.01 kW

Frequency: 106.9 MHz

Center of Radiation (COR) - AGL: 69 ft 21.0 m

1 Bay / Generic / Full-Wave Spacing Antenna

Additional Losses: 0 dB

Distance, Transmitter to Tower: 20 ft 6.1 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 93.436 mV/m

Antenna Input Power .022 kW

Line Attenuation/100 ft .6849 dB

Power Loss in Coax .003 kW 86.9 % Eff

TPO .025 KW

Tx Line Length 89 ft (27.1 m)

Minimum Tower Aperture 11 ft (3.4 m)

Top Bay Elevation - AGL 69 ft (21.1 m)

Antenna Length 1 ft (0.2 m)

Bottom of Antenna - AGL 69 ft (21 m)

This Software is Provided for
Planning Purposes Only