

Options

Solve For:

☒ TPO☐ ERP

Antenna input:

☒ End fed☐ Center FedEdit Antenna
Database

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

User Input

ERP: .01 kW

Frequency: 106.9 MHz

Center of Radiation (COR) - AGL: 102 ft 31.1 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. FI @ 1 mi./1kW 93.436 mV/m

Antenna Input Power .022 kW

Line Attenuation/100 ft .6849 dB

Power Loss in Coax .016 kW 57.9 % Eff

TPO .038 kW

Tx Line Length 127 ft (38.7 m)

Minimum Tower Aperture 11 ft (3.4 m)

Top Bay Elevation - AGL 102 ft (31.2 m)

Antenna Length 1 ft (0.2 m)

Bottom of Antenna - AGL 102 ft (31 m)

This Software is Provided for
Planning Purposes Only!