

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:

.045

kW

Frequency:

93.1

MHz

Center of Radiation (COR) - AGL:

112

ft

34.1

m

1 Bay / Generic / Full-Wave Spacing

Antenna

Additional Losses:

0

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

.098

kW

Line Attenuation/100 ft

.6368

dB

Power Loss in Coax

.022

kW

81.8

% Eff

TPO

.120

kW

Tx Line Length

137 ft (41.8 m)

Minimum Tower Aperture

11 ft (3.4 m)

Top Bay Elevation - AGL

112 ft (34.2 m)

Antenna Length

1 ft (0.2 m)

Bottom of Antenna - AGL

112 ft (34.1 m)

This Software is Provided for Planning Purposes Only!