

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: 98.5 MHz

Center of Radiation (COR) - AGL: 108 ft 32.9 m

2 Bay / Generic / Half-Wave Spacing Antenna

Additional Losses: 1.136 dB

Distance, Transmitter to Tower: 25 ft 7.6 m

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

Calculated Results

Antenna Power Gain	0.702
Antenna Field Gain	.8379
Ant. FI @ 1 mi./1kW	115.289 mV/m
Antenna Input Power	.014 kW
Line Attenuation/100 ft	.6556 dB
Power Loss in Coax	.008 kW
TPO	.022 kW

Tx Line Length	131 ft (39.8 m)
Minimum Tower Aperture	15 ft (4.6 m)
Top Bay Elevation - AGL	110 ft (33.7 m)
Antenna Length	5 ft (1.5 m)
Bottom of Antenna - AGL	106 ft (32.2 m)

This Software is Provided for
Planning Purposes Only