

Options

Solve For: TPO ERP

Antenna input: End fed Center Fed

Edit Antenna Database

Transmission Line FM Mid-Band Average Power Rating is 8.08kW

User Input

ERP: .028 kW

Frequency: 99.9 MHz

Center of Radiation (COR) - AGL: 131 ft 39.9 m

Athens Antenna

Additional Losses: 0 dB

Distance, Transmitter to Tower: 25 ft 7.6 m

Andrew LDF5-50A, 7/8" Foam Helax Trans. Line

Calculated Results

Antenna Power Gain	1.74	Tx Line Length	156 ft (47.6 m)
Antenna Field Gain	1.3191	Minimum Tower Aperture	11 ft (3.4 m)
Ant. Fl @ 1 mi./1kW	181.507 mV/m	Top Bay Elevation - AGL	131 ft (40 m)
Antenna Input Power	.016 kW	Antenna Length	1 ft (0.2 m)
Line Attenuation/100 ft	.3628 dB	Bottom of Antenna - AGL	131 ft (39.9 m)
Power Loss in Coax	.002 kW	87.8 % Eff	This Software is Provided for Planning Purposes Only
TPO	.018 KW		