

### 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:  kW

Frequency:  MHz

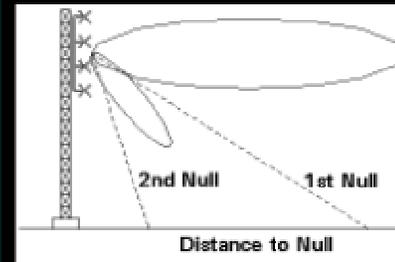
Center of Radiation (COR) - AGL:  ft  m

Antenna

Additional Losses:  dB

Distance, Transmitter to Tower:  ft  m

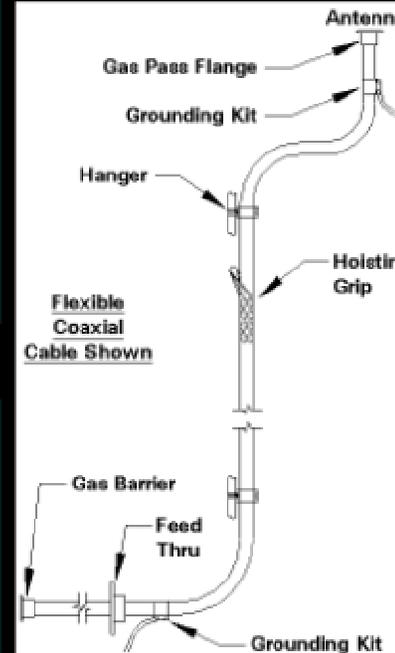
Trans. Line



1st Null

2nd Null

*No Beam Tilt or Null Fill Used*



### Calculated Results

Antenna Power Gain	<input type="text" value="0.4611"/>	Tx Line Length	<input type="text" value="120 ft (36.6 m)"/>
Antenna Field Gain	<input type="text" value=".679"/>	Minimum Tower Aperture	<input type="text" value="11 ft (3.4 m)"/>
Ant. FI @ 1 mi./1kW	<input type="text" value="93.436"/> mV/m	Top Bay Elevation - AGL	<input type="text" value="85 ft (26 m)"/>
Antenna Input Power	<input type="text" value=".390"/> kW	Antenna Length	<input type="text" value="1 ft (0.2 m)"/>
Line Attenuation/100 ft	<input type="text" value=".3697"/> dB	Bottom of Antenna - AGL	<input type="text" value="85 ft (25.8 m)"/>
Power Loss in Coax	<input type="text" value=".042"/> kW	<input type="text" value="90.3"/> % Eff	
<b>TPO</b>	<input type="text" value=".432"/> kW		

*The Following Systems Will Work In This Application:*

*A 815D5-5 kW Solid-State Analog FM Transmitter*



### Line Accessories

# of Hangers	<input type="text" value="29"/>
Hanger Spacing	<input type="text" value="3"/> ft
# of Hanger Adapters	<input type="text" value="29"/>
# of Hoisting Grips	<input type="text" value="0"/>
# of Grounding Straps	<input type="text" value="2"/>