FM System Calculator

Options

Solve For:
- TPO
- ERP

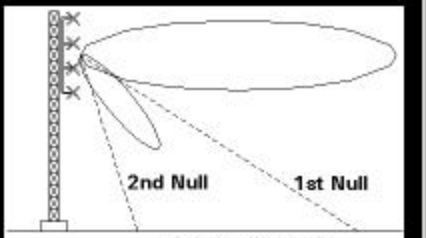
Antenna input:
- End fed
- Center Fed

Edit Antenna Database

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

User Input

ERP:	0.01	kW	
Frequency:	100.5	MHz	
Center of Radiation (COR) - AGL:	85	ft	25.9 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	



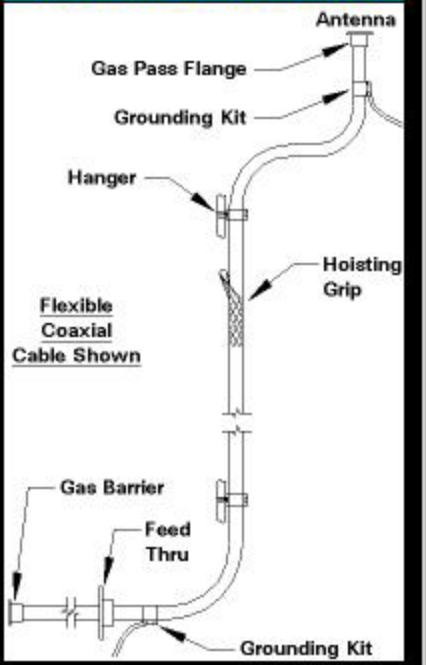
1st Null	90 Degrees, 0 mi.
2nd Null	

No Beam Tilt or Null Fill Used

Calculated Results

Antenna Power Gain	0.4611		Tx Line Length	110 ft (33.5 m)
Antenna Field Gain	.679		Minimum Tower Aperture	11 ft (3.4 m)
Ant. FI @ 1 mi./1kW	93.436	mV/m	Top Bay Elevation - AGL	85 ft (26 m)
Antenna Input Power	.022	kW	Antenna Length	1 ft (0.2 m)
Line Attenuation/100 ft	.6626	dB	Bottom of Antenna - AGL	85 ft (25.8 m)
Power Loss in Coax	.004	kW	84.6 % Eff	
TPO	.026	KW		

This Software is Provided for **Planning Purposes Only**



The Following Systems Will Work In This Application:

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

Line Accessories

# of Hangers	29	
Hanger Spacing	3	ft
# of Hanger Adapters	29	
# of Hoisting Grips	0	
# of Grounding Straps	2	