## Roger GPS, repeater budget calculator for NTIA regula

GPS carrier frequency,
use code L1 or L2
L1 Values in light blue cells only can be edited
1575 MHz

	Avg Receive Power North America Isotropic Antenna		Receiver + Antenna Gain	Ext	External components  Cable Loss.  This has to be  negative value		
	•		35.0	dB	-2.0	dB	
Level	-130.0	dBm	-95.0	dBm	-97.0	dBm	

## tions

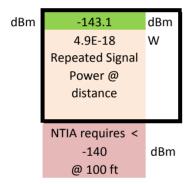


		Repeater unit					
		Repeater Gain.					
		Adjusted in the		Repeater Antenna		Antenna Isotropic vs	
Attenuator		repeater		Gain		Dipole	
0.0	dB	17.0	dB	3.0	dB	-2.2	
-97.0	dBm	-80.0	dBm	-77.0	dBm	-79.2	
0.0							
Attenuator needed to							
reach allowed output			Effective Radiated Effective Isotrop		Effective Isotropic		
limit				Power		Radiated Power	

## Distance from Building

ft	100
m	30.48
mi	0.019
km	0.030

Free Space Loss dB -66.1 dB



Effective Radiated Power (W) 100 feet from the building 1.99526E-11 in Watts Same in pico Watts 100 feet from the building

19.9526231496888 pW