



## Roger GPS, repeater budget calculator for NTIA regulations

GPS carrier  
frequency, use code  
L1 or L2

L1  
1575 MHz

Values in light blue cells only can be edited

Distance from  
Building

116.4 ft  
35.47872 m  
0.022 mi  
0.035 km

	Avg Receive Power North America Isotropic Antenna	Receiver + Antenna Gain	Cable Loss	Repeater Gain	Repeater Antenna Gain	Antenna Isotropic vs Dipole	Free Space Loss
	-130 dBm	38 dB	-10.4 dB	12 dB	3 dB	-2.15 dB	-67.4 dB
Level	-130 dBm	-92 dBm	-102.4 dBm	-90.4 dBm	-87.4 dBm	-89.6 dBm	-154.8 dBm
					Effective Radiated Power	Effective Isotropic Radiated Power	3.3E-19 W
							Repeated Signal Power @ distance
							NTIA requires < -140 dBm @ 100 ft



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