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250 Foot Cable Link Budget Calculation

Receive Ant Gain	Ant Cable Insertion Loss	Repeater Amp + Splitter Gain	Repeater Ant Gain Best Case	Range in Feet	Repeated Signal Power @ Range In dBm		
30	-19.5	44	0	100	-141.59		
GPS Carrier Frequency MHz	1575	Total System Gain	54.5	Range in Miles	0.02	Total Signal Power @ Range in Watts	6.9E-18
Avg Receive Power L1 dBm North America	-130			Range in Meters	31.17	Radiated Power dBm	-75.5
Free Space loss with Isotropic Antennas	-66.09			Range in Kilometers	0.03	Transmitted Power (W)	14.1E-12
						Effective Radiated Power (W)	28.2E-12
						Effective Radiated Power (dBW)	-105.5



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