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150 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	-13.5	38	0	100	-141.59
GPS Carrier Frequency MHz		Total System Gain		Range in Miles	Total Signal Power @ Range in Watts
1575		54.5		0.02	6.9E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
-130				31.17	-75.5
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
-66.09				0.03	14.1E-12
					Effective Radiated Power (W)
					28.2E-12
					Effective Radiated Power (dBW)
					-105.5



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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		Total System Gain		Range in Miles	Total Signal Power @ Range in Watts
1575		54.5		0.02	6.9E-18
Avg Receive Power L1 dBm North America				Range in Meters	Radiated Power dBm
-130				31.17	-75.5
Free Space loss with Isotropic Antennas				Range in Kilometers	Transmitted Power (W)
-66.09				0.03	14.1E-12
					Effective Radiated Power (W)
					28.2E-12
					Effective Radiated Power (dBW)
					-105.5



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