

Equivalent Isotropically Radiated Power Calculation

Receive Antenna Gain	35 dB	GPS L1 Carrier Frequency	1575.42 MHz
Antenna Cable Loss	-10 dB	Range	0.03 km
Re-radiating Amplifier Gain	25 dB	Free Space Path Loss	-65.94 dB
Re-radiating Antenna Gain	3 dB		
System Gain	53 dB		

GPS L1 Receive Power (typ.)	-130 dBm
System Gain	53 dB
Free Space Path Loss	-65.94 dB
Total Radiated Power	-142.94 dBm