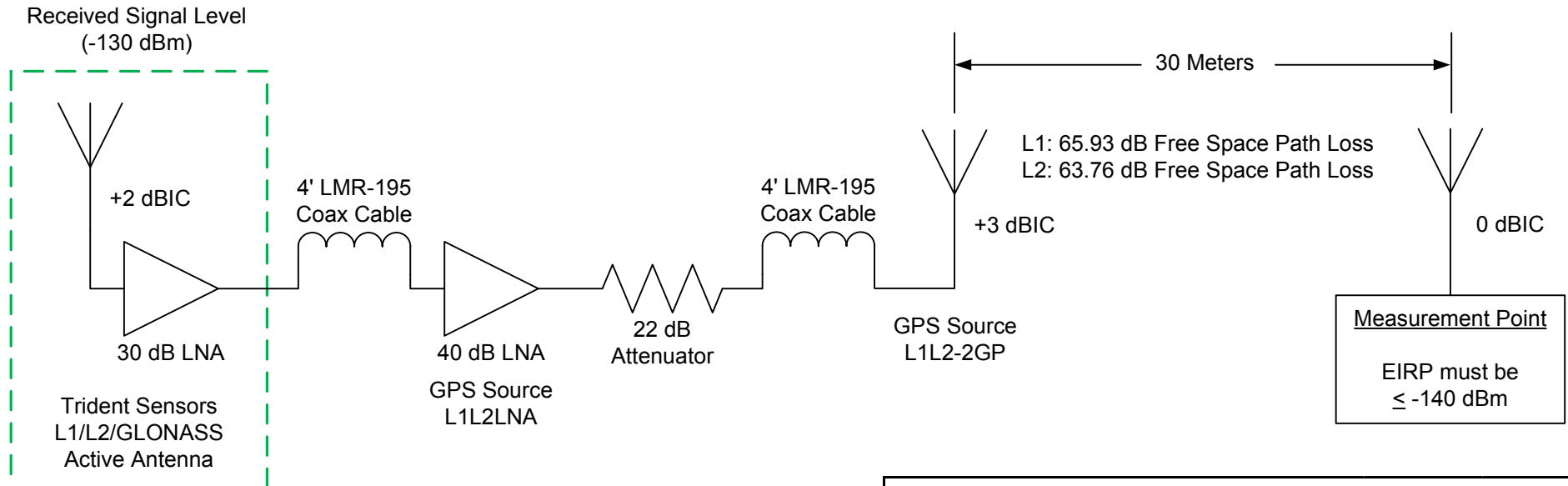


GPS L1/L2 Re-Radiator

01/20/2015



GPS L1/L2 Link Budgets		
Parameters	Frequencies	
	L1 1575.42 MHz	L2 1227.6 MHz
Receive Signal Level (dBm)	-130	-130
Antenna (dBIC)	2	2
LNA (dB)	30	30
4" LMR-195 Coax Cable (dB)	-0.7	-0.6
LNA (dB)	40	40
Fixed Attenuator (dB)	-22	-22
4" LMR-195 Coax Cable (dB)	-0.7	-0.6
Antenna (dBIC)	3	3
Re-Radiated Power (dBm)	-78.4	-78.2
30 Meter Free Space Path Loss (dB)	-65.93	-63.76
EIRP at Measurement Point (dBm)	-144.33	-141.96

LMR-195 Coax Cable Loss

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COAXIAL CABLE - ATTENUATION & POWER HANDLING CALCULATOR

Coaxial Cable Data

Product: LMR-195

Frequency (MHz): 1575.42

Run Length (Feet): 4

« Reset Calculate »

PRODUCT PERFORMANCE PARAMETERS

Attenuation:	14.9 db/100ft	48.9 db/100mtr
Average Power:	0.11 KW	
Cable Vg:	76 %	
Nominal Td:	1.34 nSec/ft	4.39 nSec/mtr
Capacitance:	26.7 pF/ft	87.7 pF/mtr
Typical Connector Loss:	0.08 dB/pair	

CABLE ASSEMBLY PERFORMANCE

Cable Run Attenuation:	0.6 dB
Total Cable Assembly Loss:	0.7 dB
Cable Run Efficiency:	87.2 %
Cable Run Time Delay:	5.35 nSec

[Click here for more information on this product](#)

Values are nominal 25°C performance calculations. Actual measured values may vary from the calculated values based on manufacturing tolerances, cable assembly length, connector performance, actual operating frequency, and measurement accuracy.

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COAXIAL CABLE - ATTENUATION & POWER HANDLING CALCULATOR

Coaxial Cable Data

Product: LMR-195

Frequency (MHz): 1227.6

Run Length (Feet): 4

« Reset Calculate »

PRODUCT PERFORMANCE PARAMETERS

Attenuation:	13.1 db/100ft	42.9 db/100mtr
Average Power:	0.12 KW	
Cable Vg:	76 %	
Nominal Td:	1.34 nSec/ft	4.39 nSec/mtr
Capacitance:	26.7 pF/ft	87.7 pF/mtr
Typical Connector Loss:	0.07 dB/pair	

CABLE ASSEMBLY PERFORMANCE

Cable Run Attenuation:	0.5 dB
Total Cable Assembly Loss:	0.6 dB
Cable Run Efficiency:	88.6 %
Cable Run Time Delay:	5.35 nSec

[Click here for more information on this product](#)

Values are nominal 25°C performance calculations. Actual measured values may vary from the calculated values based on manufacturing tolerances, cable assembly length, connector performance, actual operating frequency, and measurement accuracy.