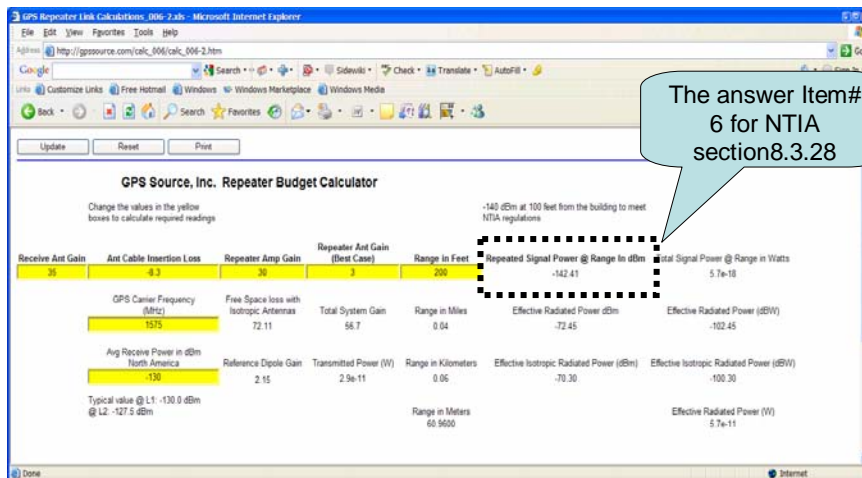


GPS Repeater Detailed Calculation for the link Budget on item 6 of NTIA section 8_3_28

LGE USA



Attenuation & Power Handling Calculator - Microsoft Internet Explorer

Address: <http://www.timesmicrowave.com/cgi-bin/calculate.pl>

Links: [Customize Links](#) [Free Hotmail](#) [Windows](#) [Windows Marketplace](#) [Windows Media](#)

Coaxial Cable Attenuation & Power Handling Calculator

Product LMR-240	Frequency (MHz) 1575	Attenuation (db/100 Feet) 10.127	Attenuation (db/100 mtrs) 33.226	Average Power (kW) 0.19
Calculate		Run Length (feet) 82	Total Run Attenuation(dB) 8.3	Efficiency (%) 14.8

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(Instructions Below)

The calculator above can be used to estimate the attenuation (dB loss), power handling capability, and transmission efficiency for some of the more popular Wireless Communications and MIL Spec cables at the frequency of interest (below Cutoff Frequency). Actual measured values may vary somewhat from the calculated numbers based on manufacturing tolerances, cable length, connectors, operating frequency, and measurement accuracy. The attenuation of cables with Bare Copper and Tinned Copper outer conductors can vary substantially from the theoretical value due to oxidation and therefore we recommend they not be used above 1 GHz. Note: the outer conductor of LMR cables is the aluminum tape.

Using the Calculator

- 1.) Select the product of interest using the Drop Down box.
- 2.) Enter the frequency of interest in MHz.
- 3.) Enter Run Length in feet.
- 4.) Click Calculate button.
- 5.) Repeat steps 2,3, & 4 for various frequencies and cable lengths.

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