

E-Options Series Frequency Response Comparisons 1 GHz and 1.2 GHz Plug In Conditioners

Due to the recent emergence of next generation, 1.2 GHz HFC networks, Antronix has developed a new series of Cable Simulators (CSG) and Cable Equalizers (CEG) with an extended forward bandwidth to support these new technologies.

The charts below illustrate the slight variations in the overall frequency response characteristics between these new “G” series plug-ins and our standard 1 GHz plug-ins.

It is recommended to deploy the new “G” series plug-ins in networks that are presently building out to 1.2 GHz or planning to do so in order to maintain consistency & repeatability in regards to signal levels.

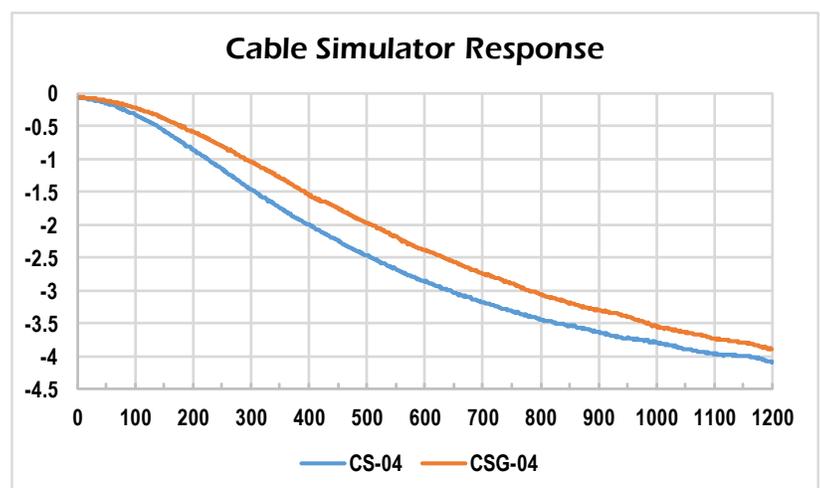
Conversely, it is recommended to deploy the standard plug-ins for networks that are planning out to 1 GHz for the same reasons as stated above.



1.0 GHz CS (Cable Simulator) vs 1.2 GHz CSG (Cable Simulator)

The chart illustrates the broadband frequency response of a CS-04 (1 GHz) and a CSG-04 (1.2 GHz) Cable Simulator plug-in.

As the upper frequency of the cable simulator is extended beyond 1 GHz to 1.2 GHz, the characteristic “knee” of the response curve changes and hence there is a slight difference in their overall frequency responses.

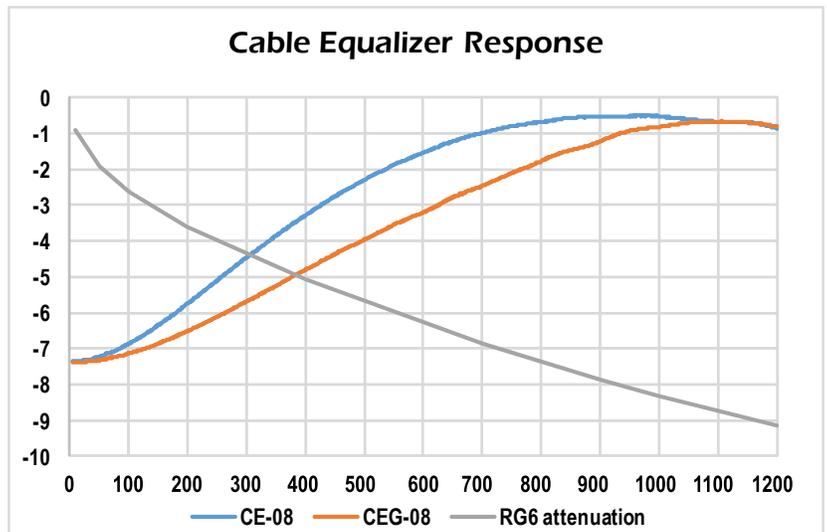


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1.0 GHz CE (Cable Equalizer) vs 1.2 GHz CEG (Cable Equalizer)

The chart illustrates the broadband frequency response of a CE-08 (1 GHz) and a CEG-08 (1.2 GHz) Cable Equalizer plug-in.

As the upper frequency of the cable equalizer is extended beyond 1 GHz to 1.2 GHz, the characteristic “knee” of the response curve changes and hence there is a slight difference in their overall frequency responses.



Equalized Response with RG-6

The chart illustrates the composite broadband frequency response of a CE-08 (1 GHz) and a CEG-08 (1.2 GHz) Cable Equalizer plug-in along with 136 feet of RG-6 coaxial drop cable (about 8 dB at 1 GHz).

