- Test case: ZX230AP and ZX230AR
- Test tool: Agilent network analyzer

- Measured Differential Insertion Loss using ZX230 Rev 0 - test board results in :

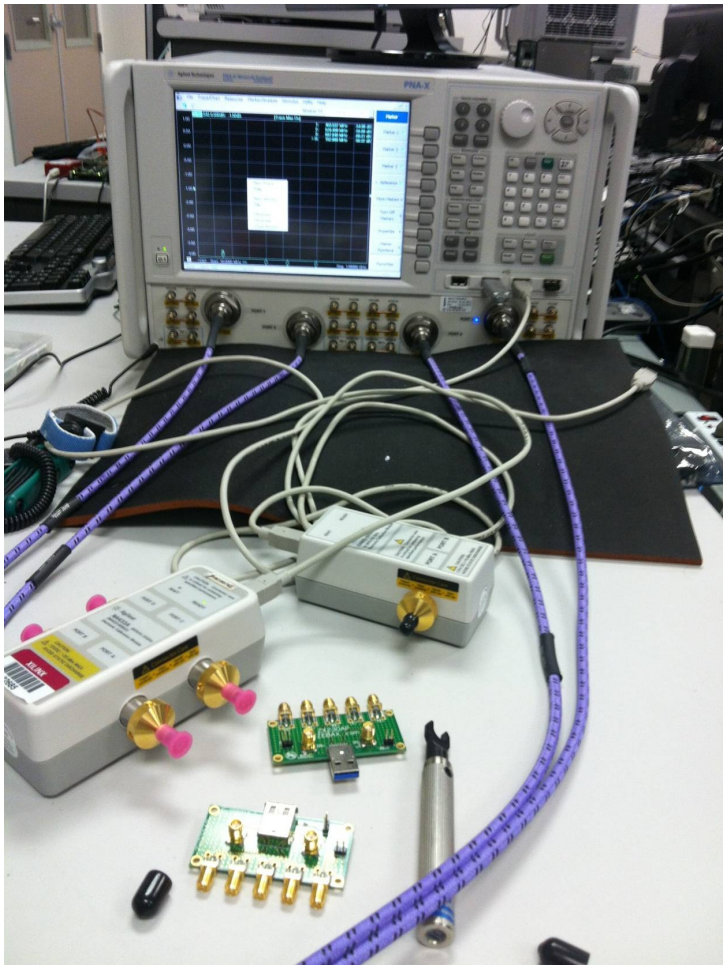
TX+-	**RX+-**	**DN+-**
-2dB at 1GHz	-2.4dB at 1GHz	-1.5dB DC to 1GHz

USB 2.0 USB 3.0 Test Board – Characterization report **DC-1GHz**

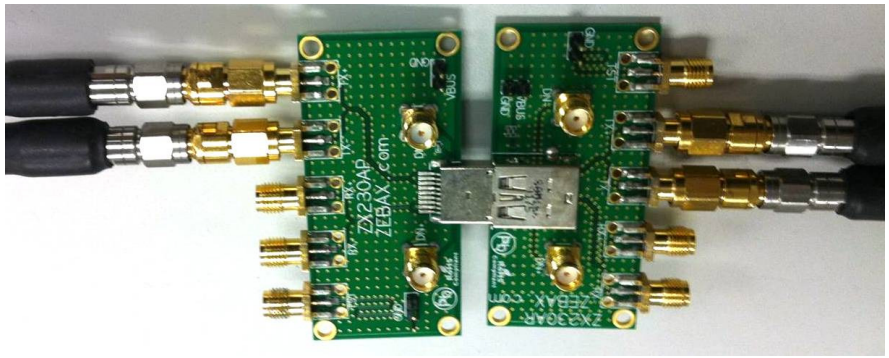
1. Test case using ZX230AP and ZX230AR

USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

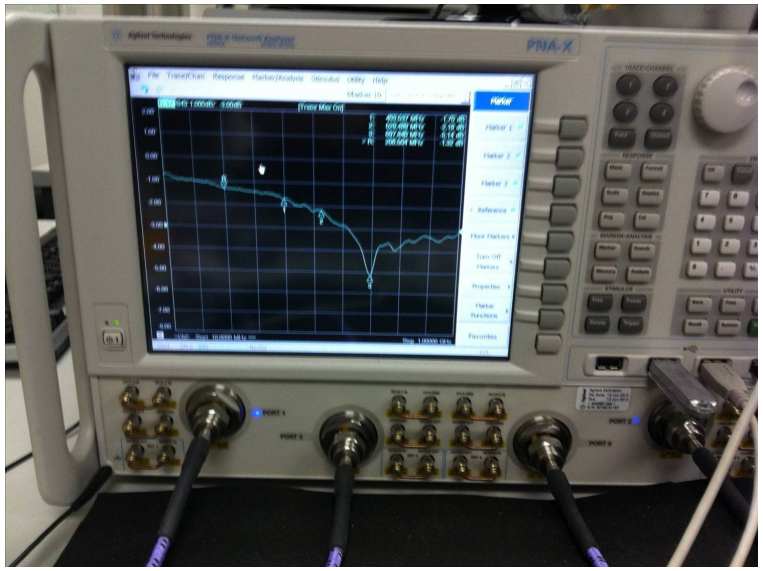
- Test setup configuration

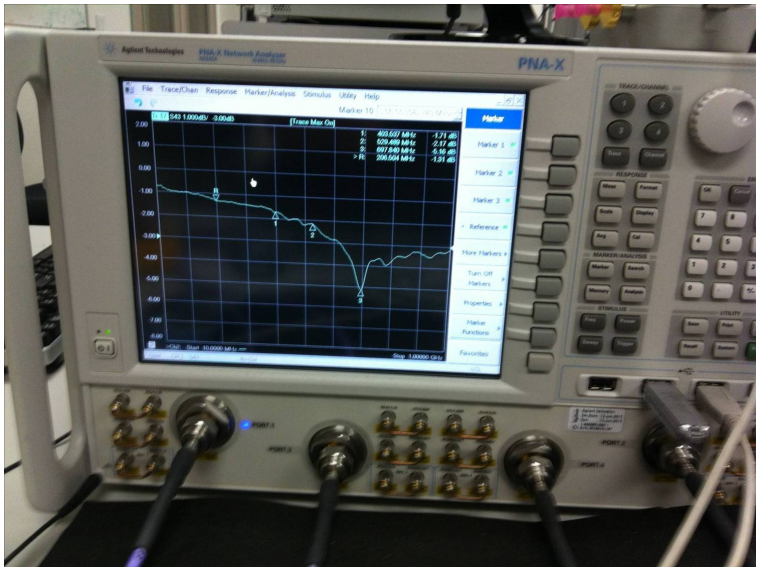


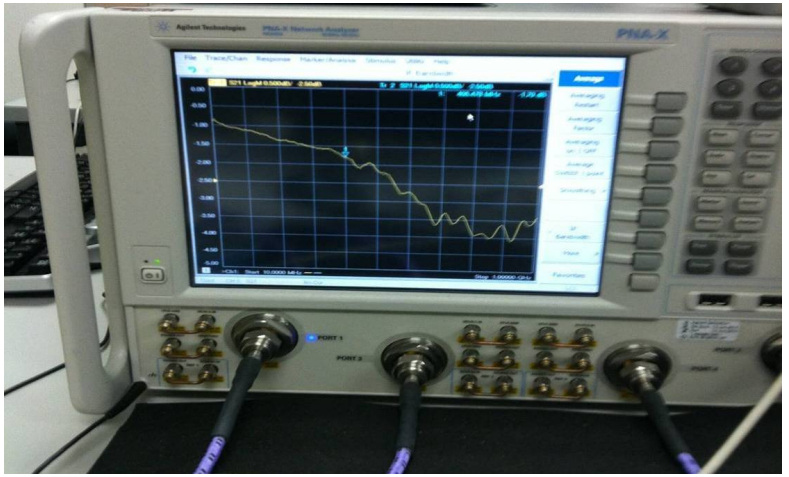
- Board to board connection interface setup



USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

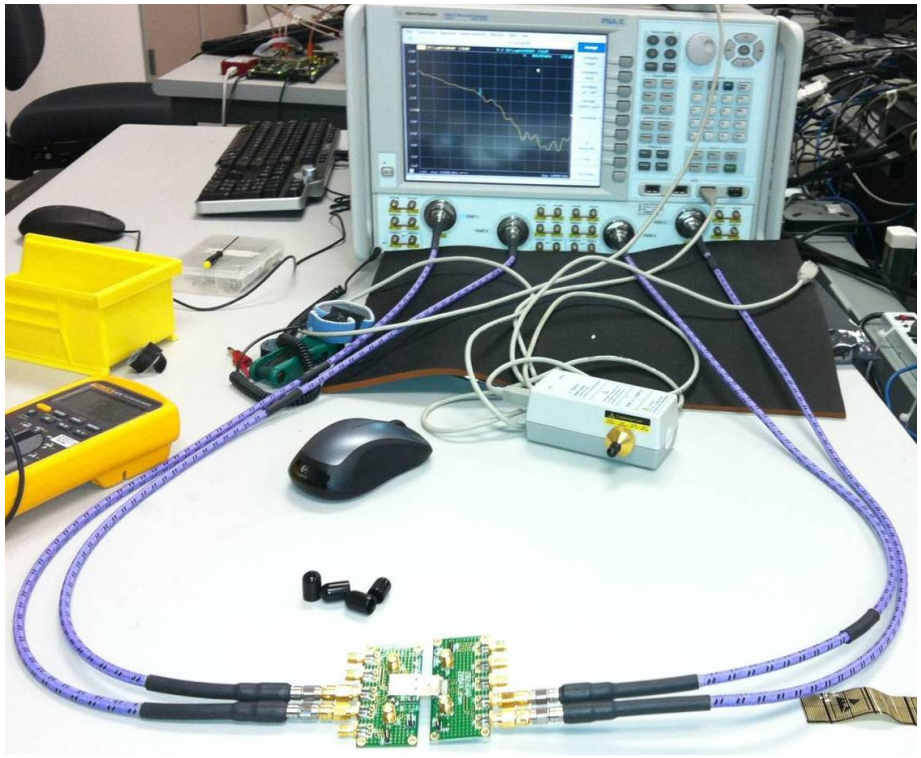






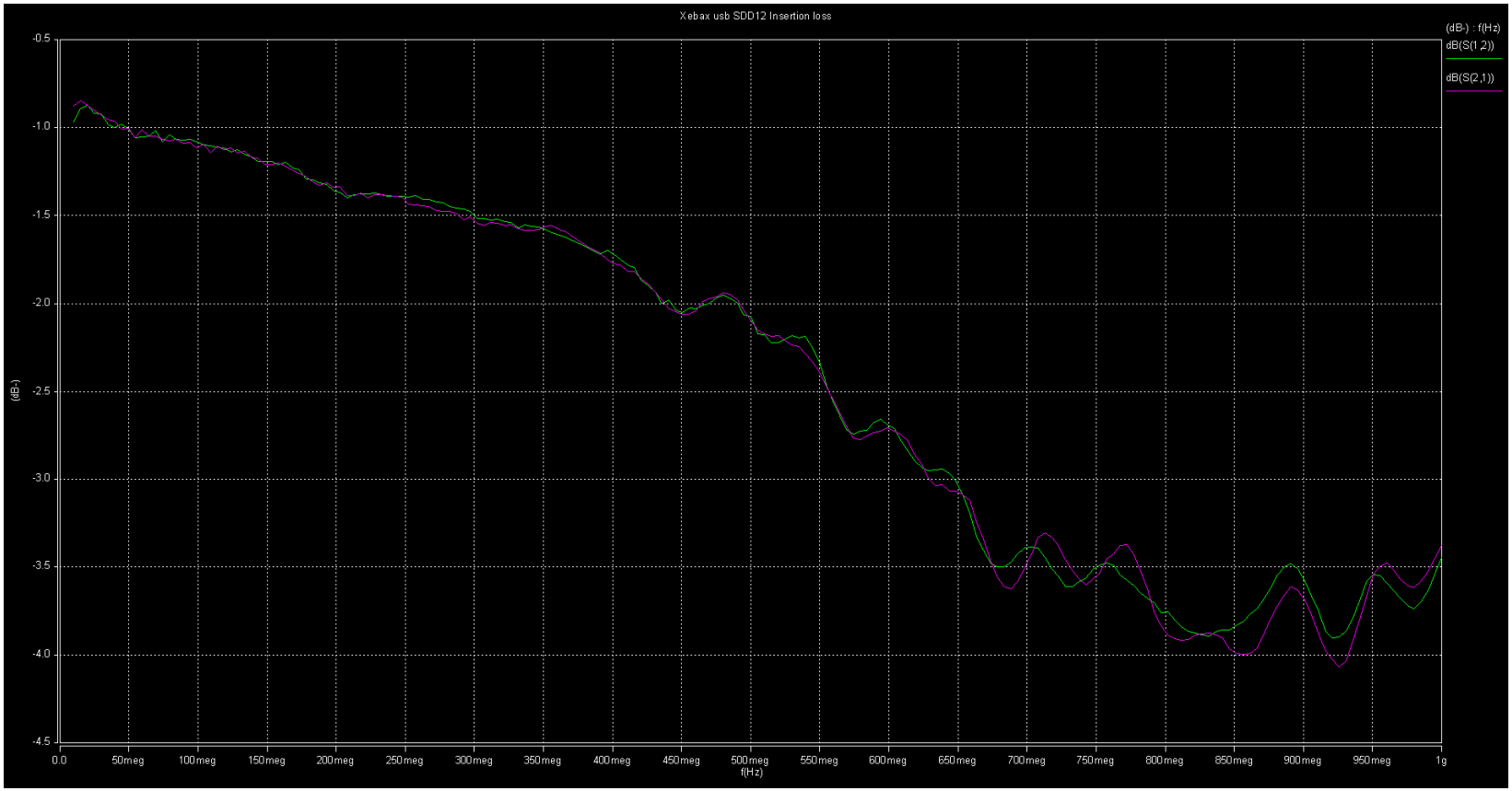
USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

- System closed loop configuration



USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

- SDD12 Insertion loss : DC .. 1GHz

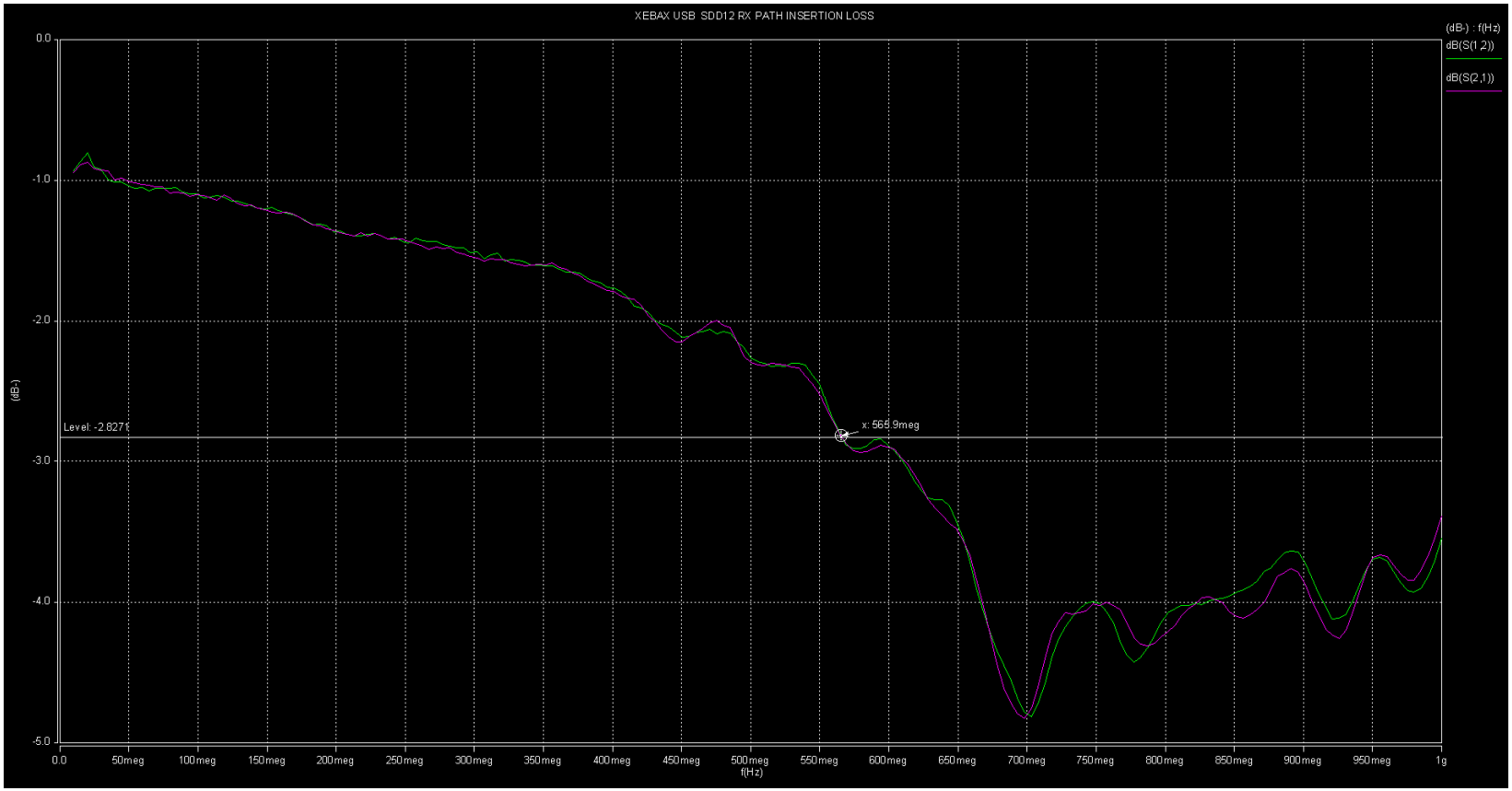


USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

- TX+- SDD12 Insertion loss : DC .. 1GHz

USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

- RX+- SDD12 Insertion loss : DC .. 1GHz



USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

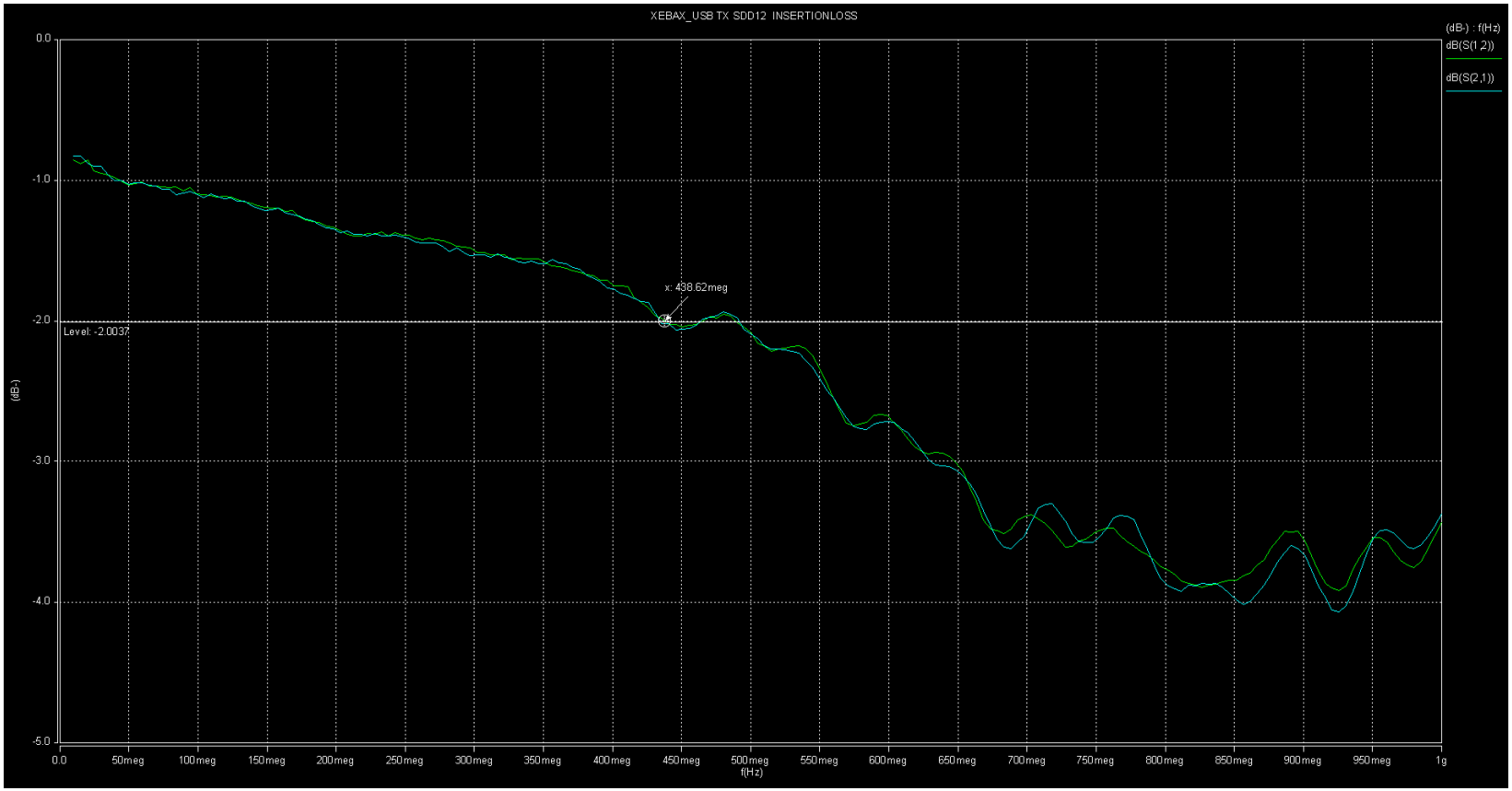
- DN+- SDD12 Insertion loss : DC .. 1GHz

USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

- SDD12 Insertion loss : DC .. 1GHz

USB 2.0 USB 3.0 Test Board – Characterization report

- SDD12 Insertion loss : DC .. 1GHz



USB 2.0 USB 3.0 Test Board – Characterization report
DC-1GHz

- Differential Insertion Loss (EIA-360-101)

  The differential insertion loss, SDD12, measures the differential signal energy transmitted through the mated cable assembly.

- Chart below is the USB Differential Insertion loss Requirement. The ZX230 exceeds DC-1GHz design requirements.

TX+-	RX+-	DN+-
-2dB at 1GHz	-2.4dB at 1GHz	-1.5dB DC to 1GHz