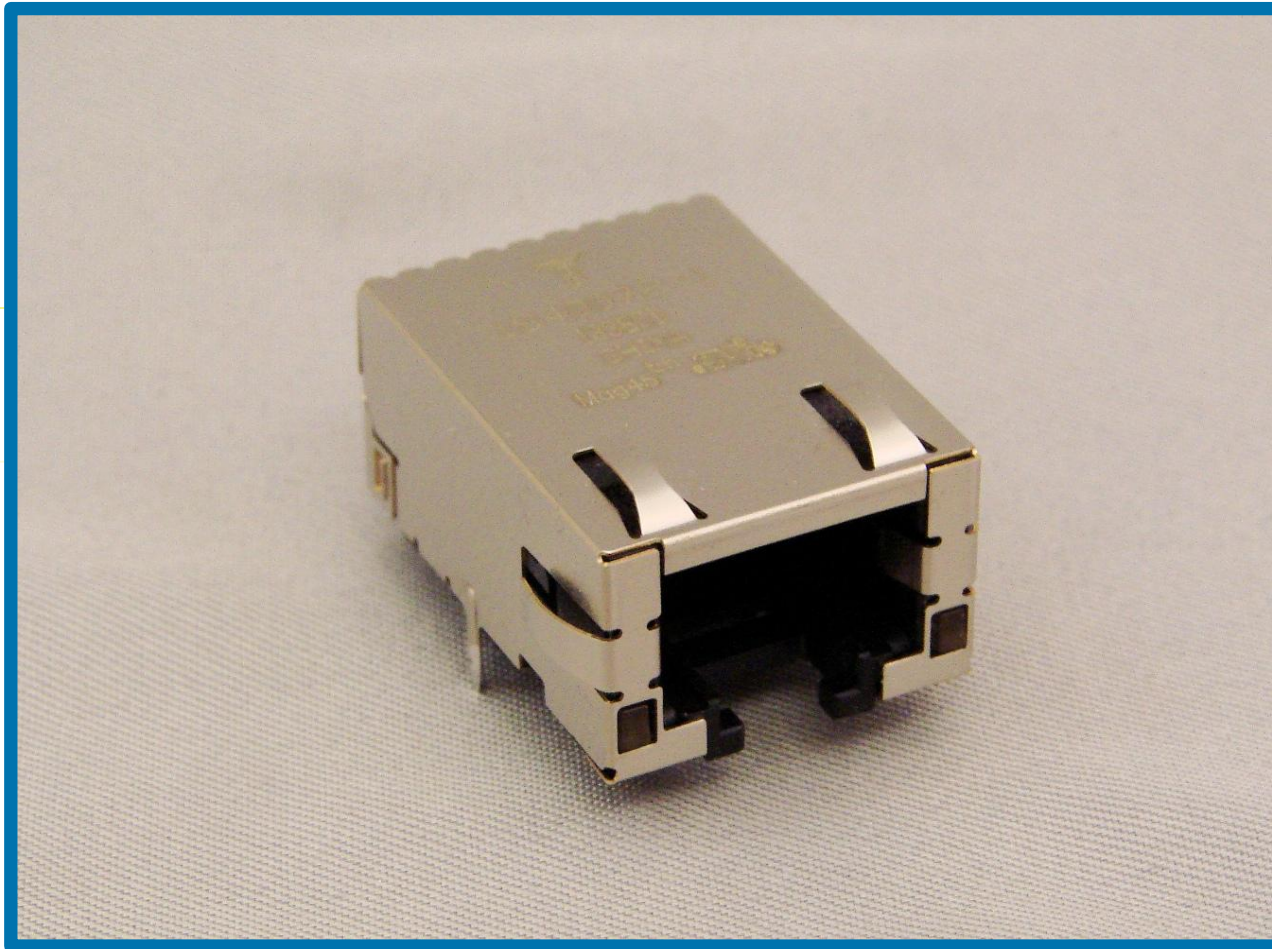




40GBASE-T ICM

Brian Buckmeier, Victor Renteria
October 2013

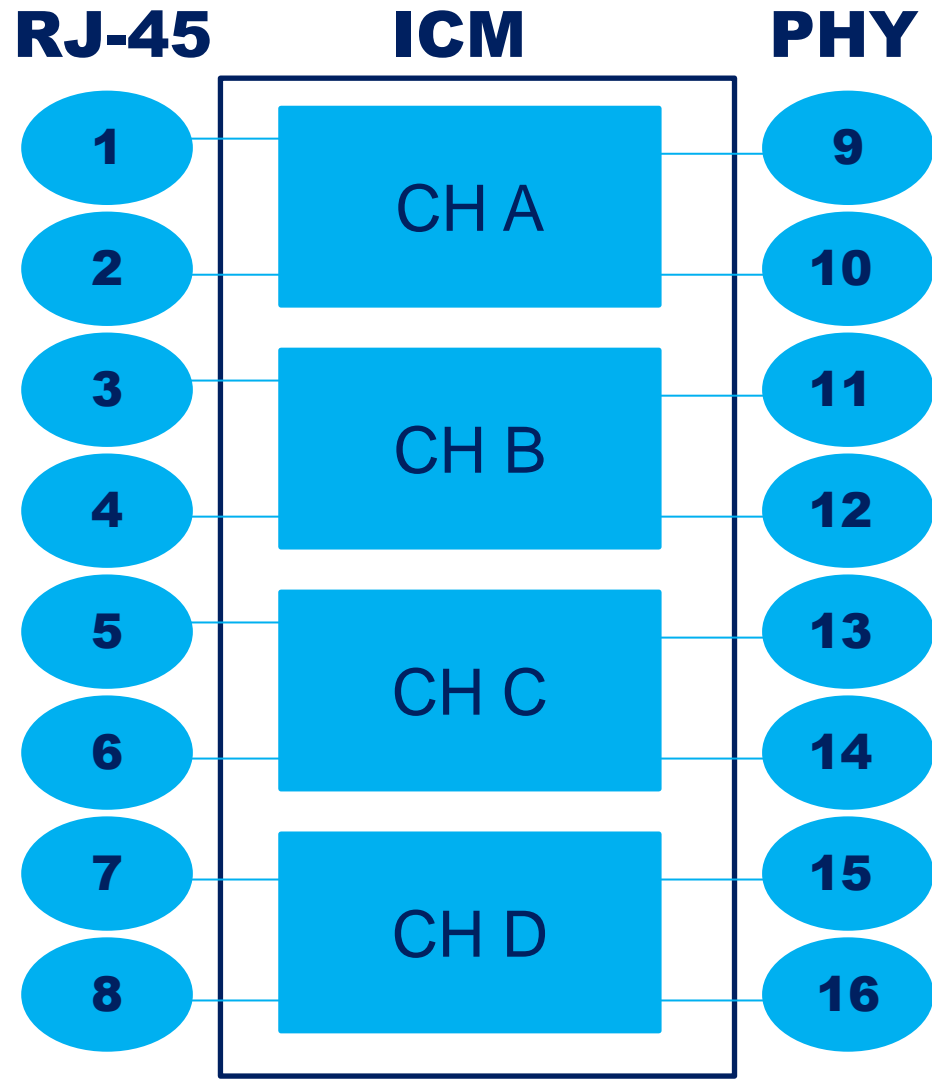
ICM (INTEGRATED MAGNETIC MODULE)



40GBASE-T ICM

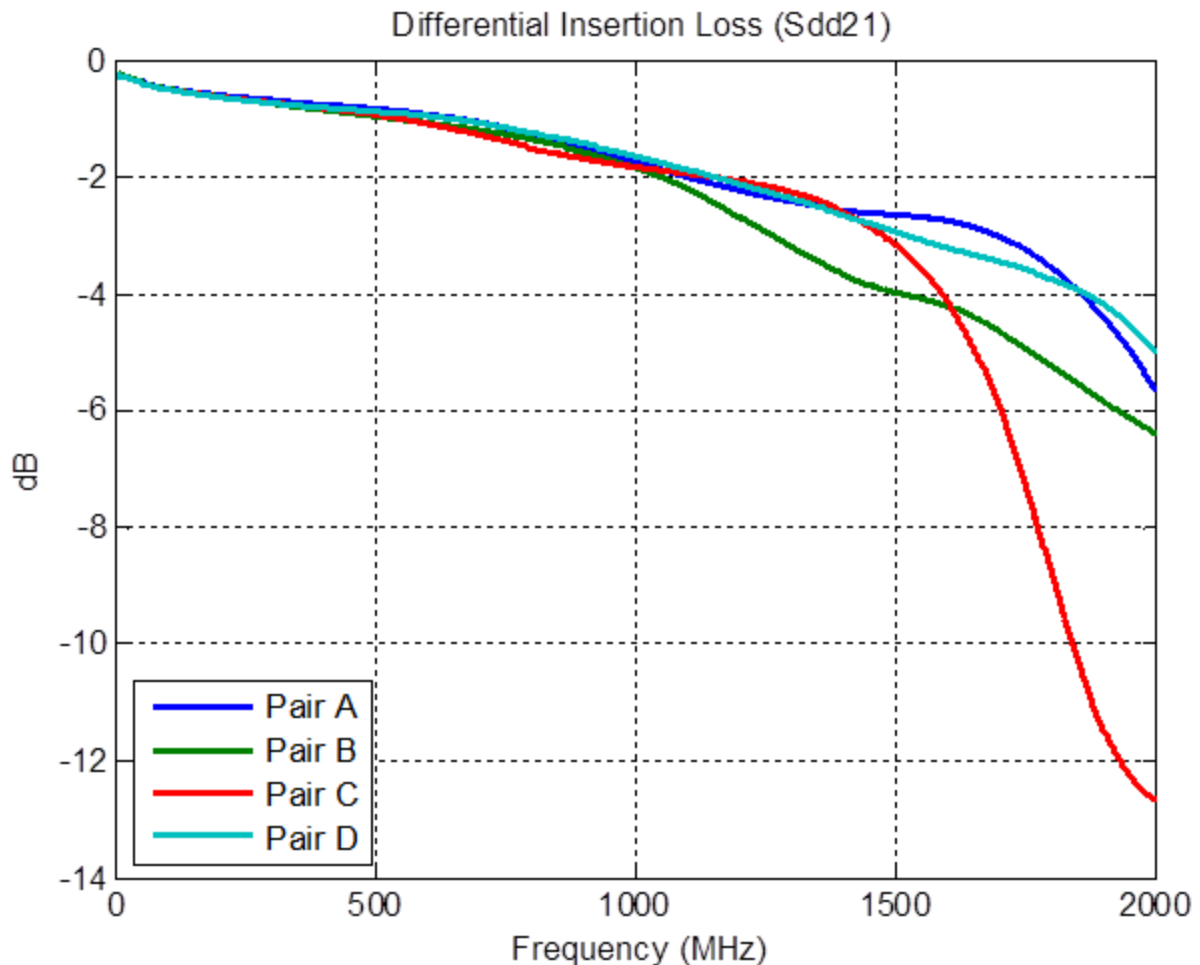
Sixteen port model

- VNA ports 1 and 2 are RJ side
- VNA ports 3 AND 4 are PHY side
- E5071C ENA used
- Measurements made @ 50 Ohms single ended
- Swept 1MHz TO 2GHz
- 1601 points used, maximum allowed by E5071C



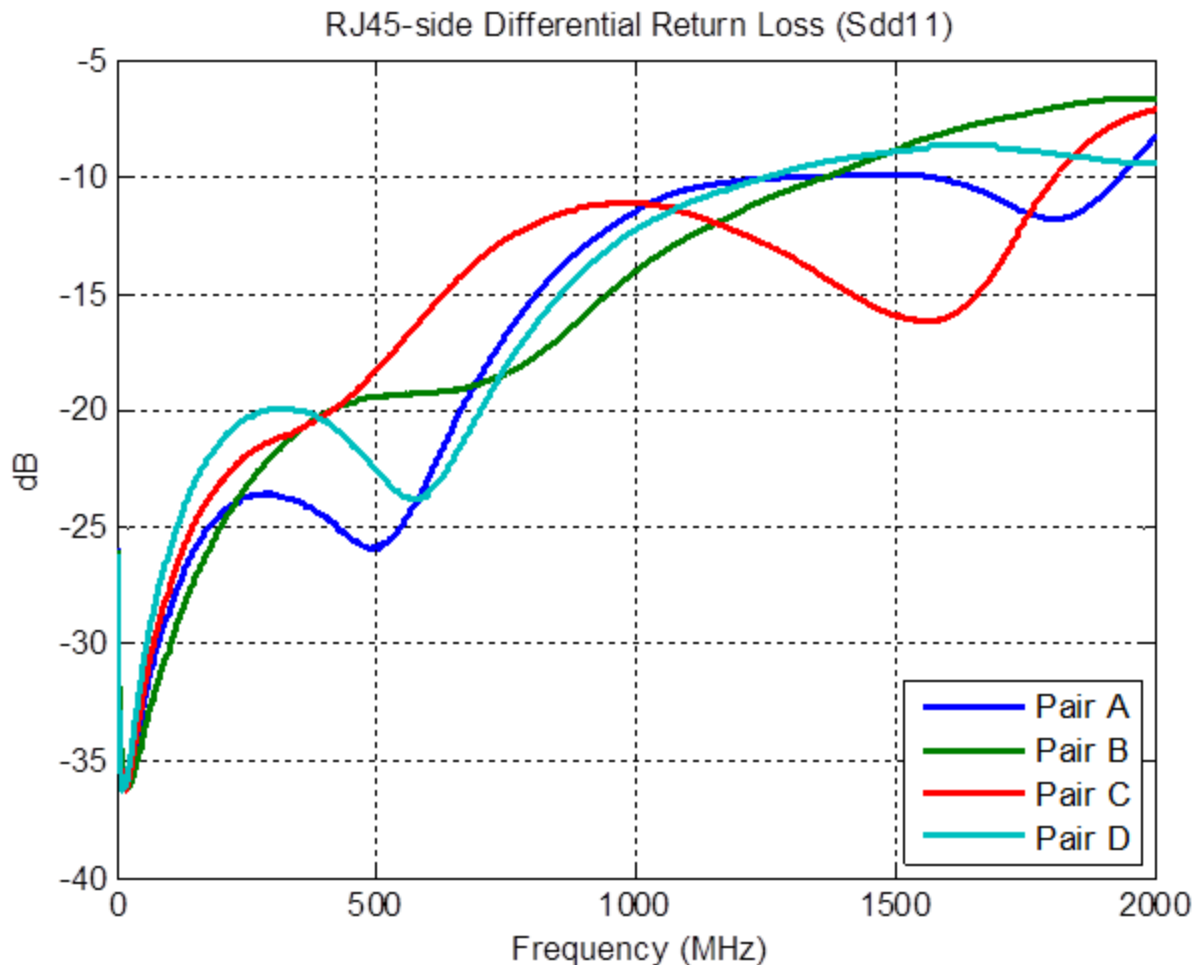
40GBASE-T ICM

Typical insertion loss



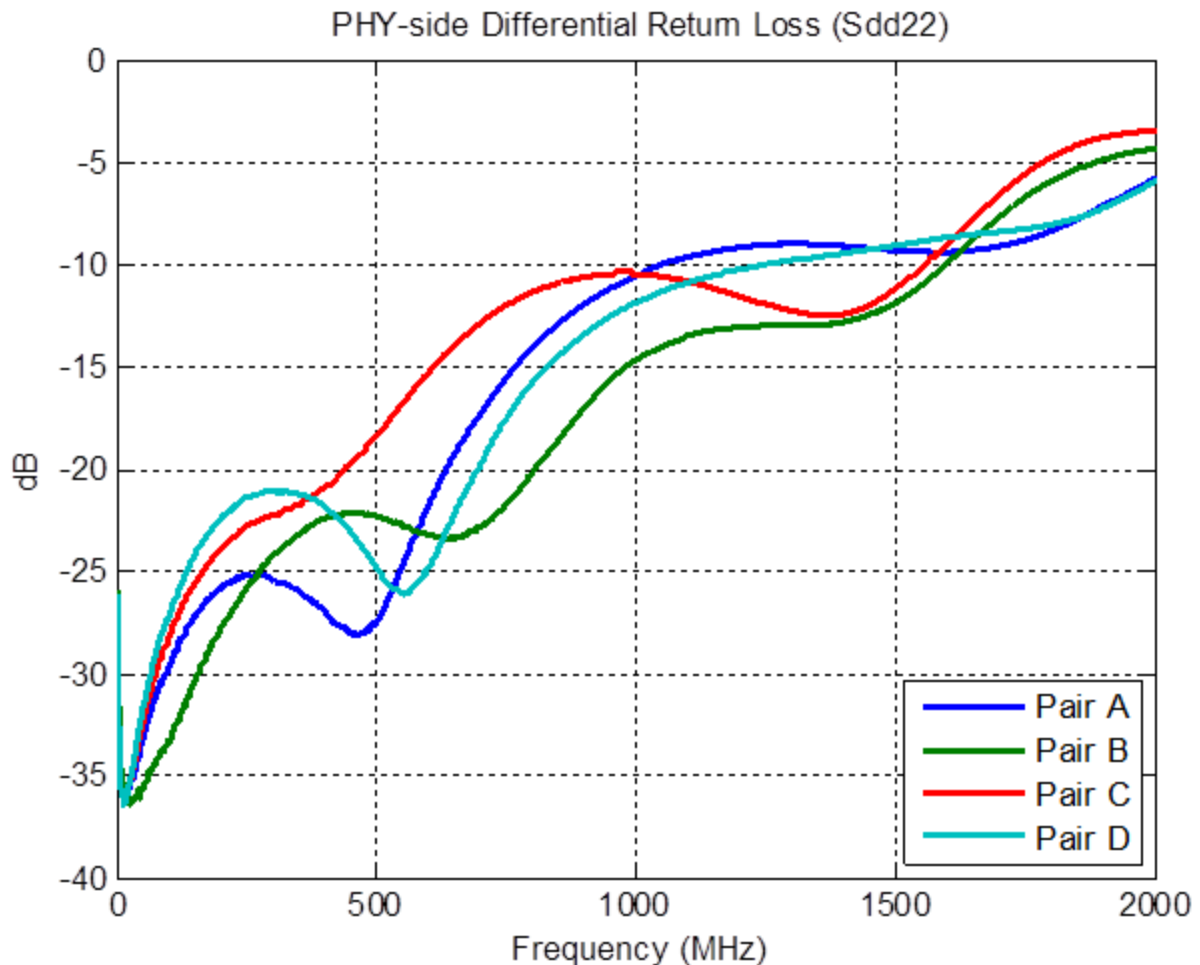
40GBASE-T ICM

Typical return loss



40GBASE-T ICM

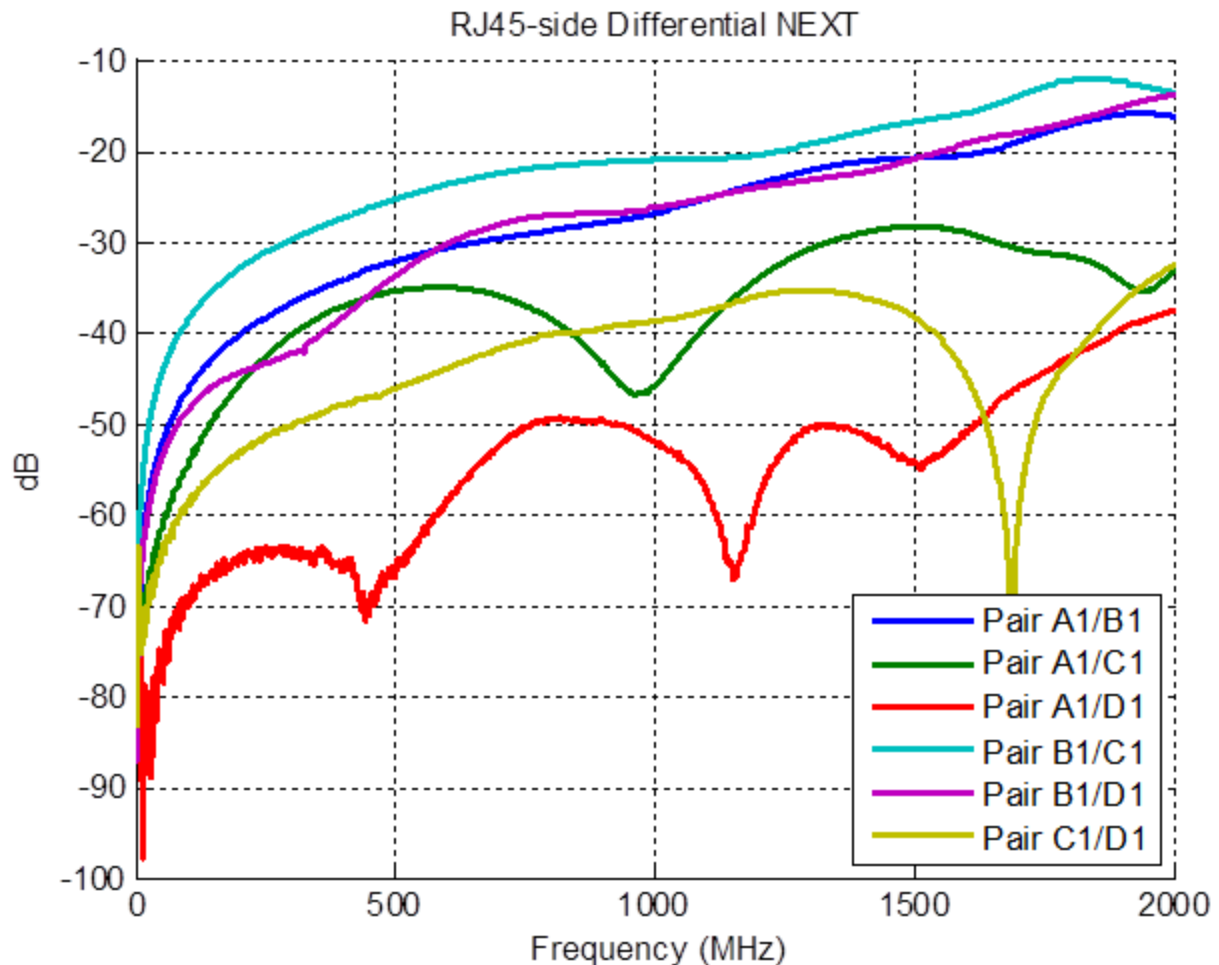
Typical return loss



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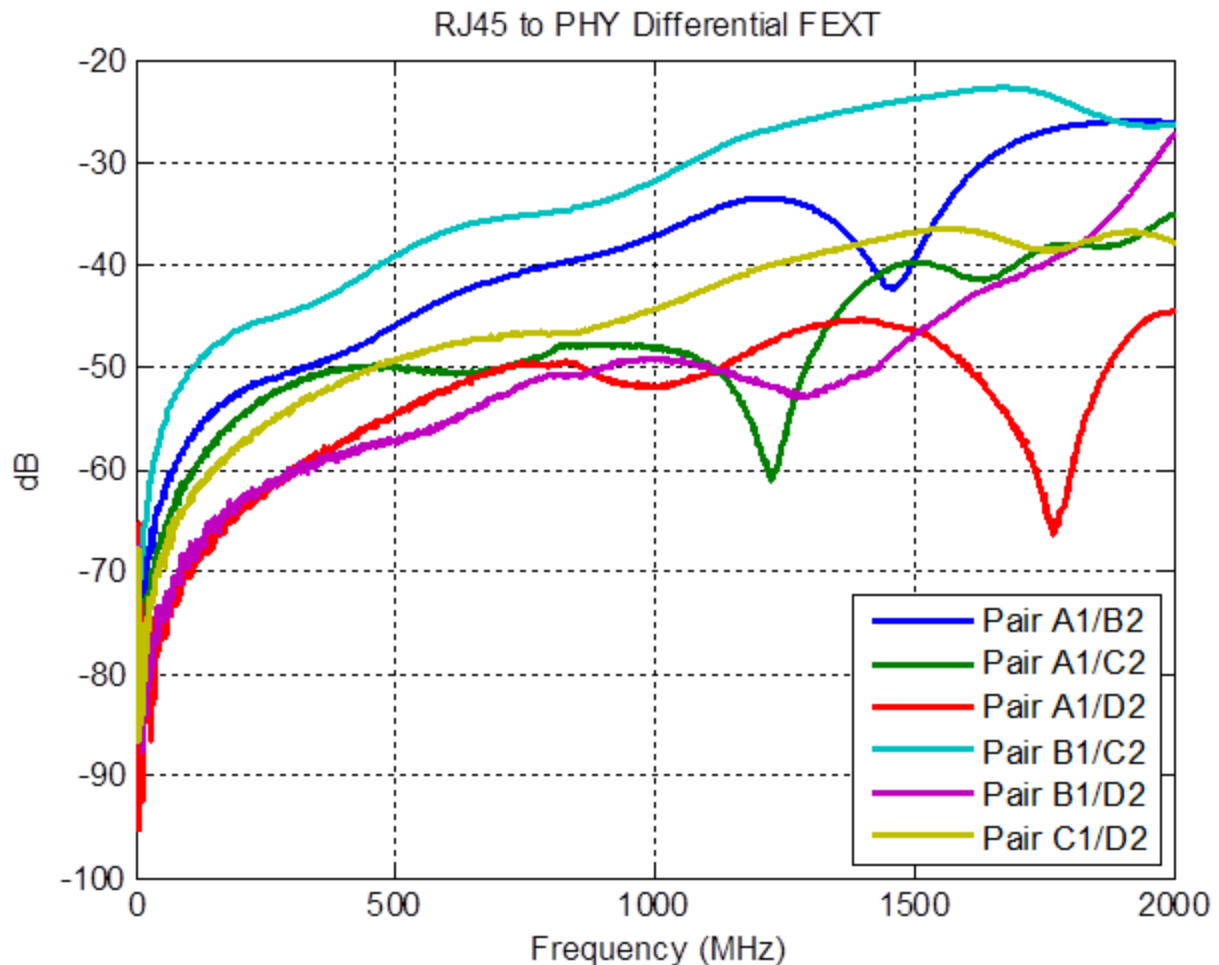
Typical NEXT



40GBASE-T ICM



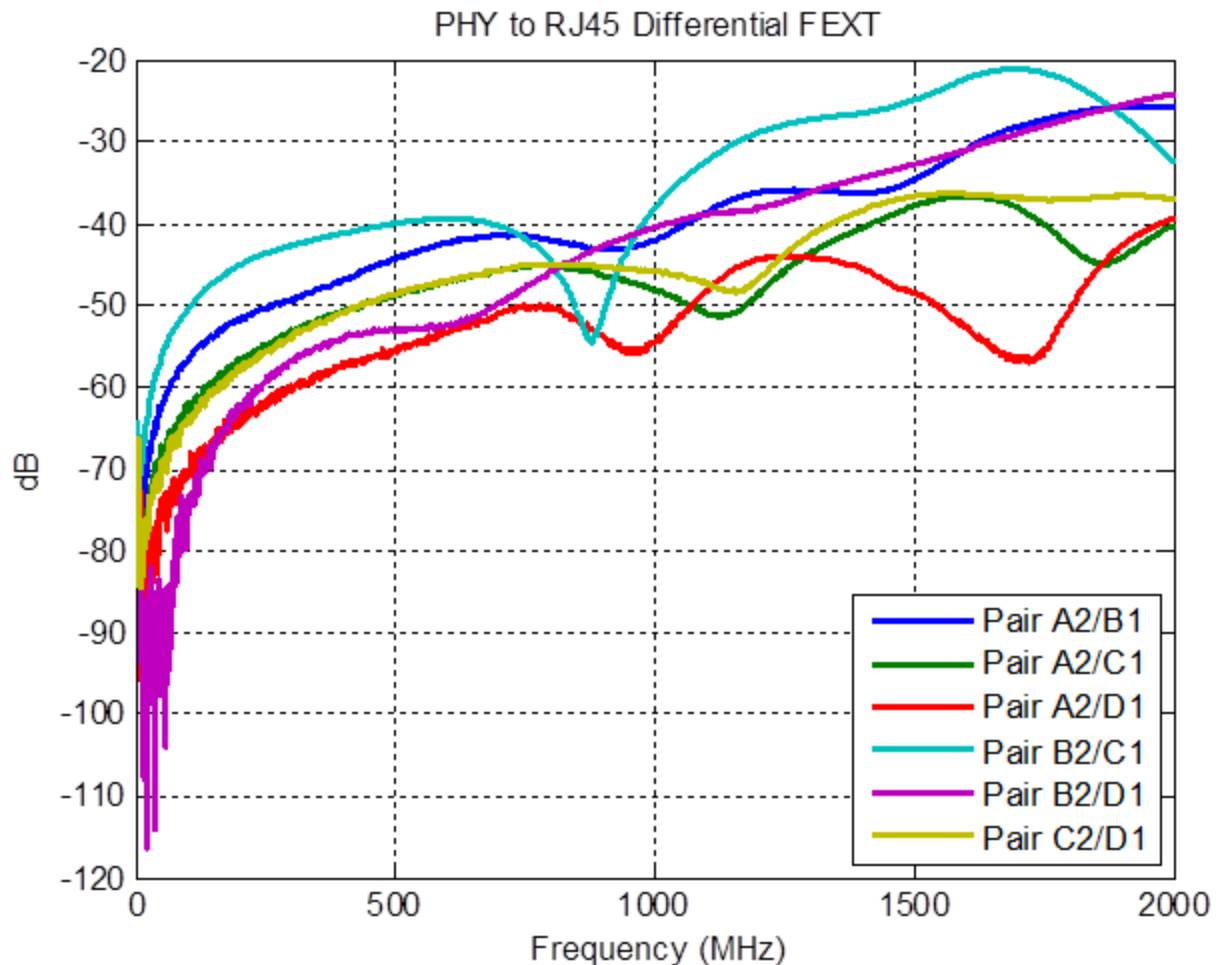
Typical FEXT



40GBASE-T ICM



Typical FEXT



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Other parameters

- **OCL > 160uH**
- **Meets IEEE HIPOT specification**

THANK YOU!

40GBASE-T ICM