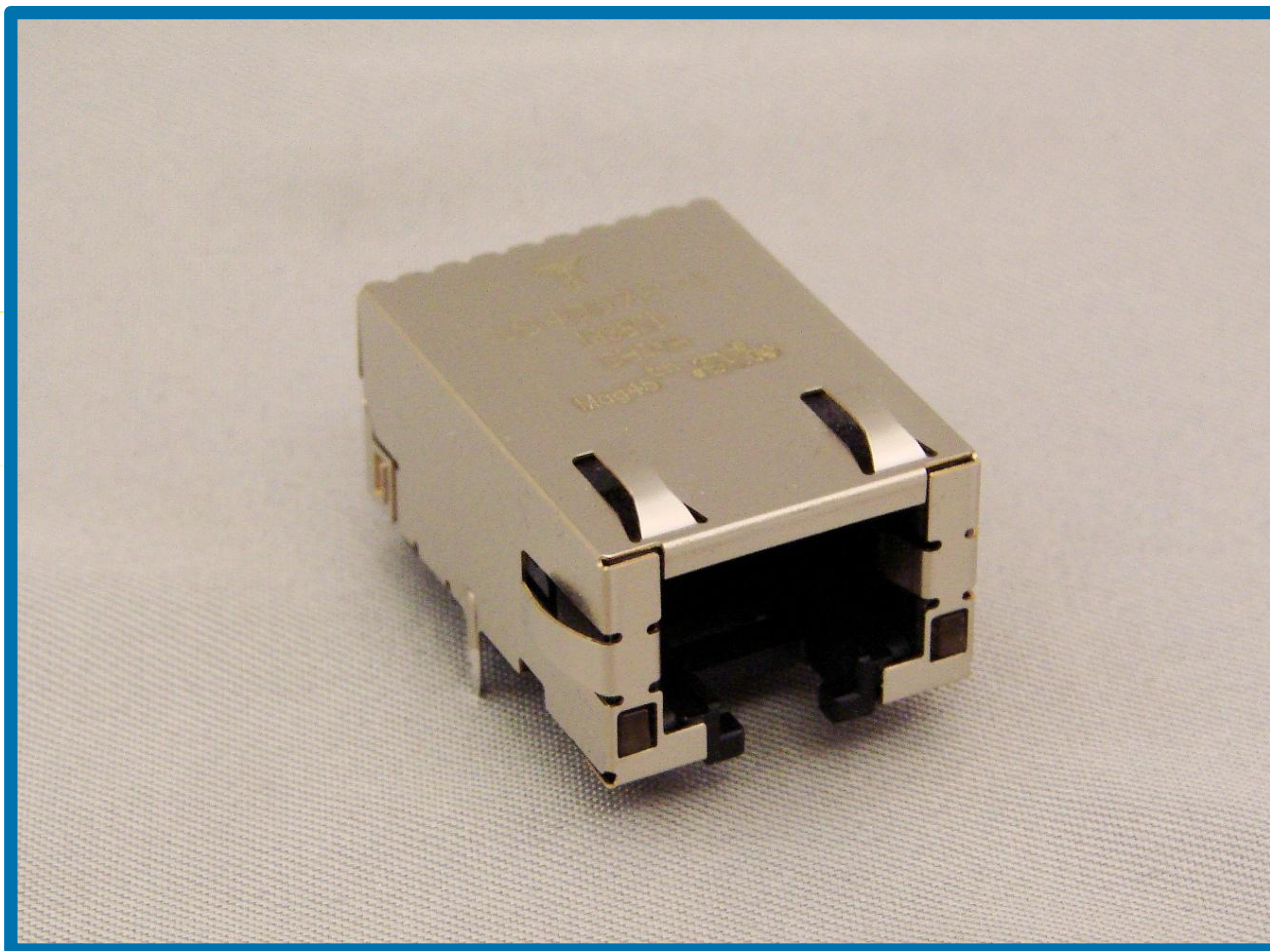




40GBASE-T ICM

Brian Buckmeier, Victor Renteria
November 2013

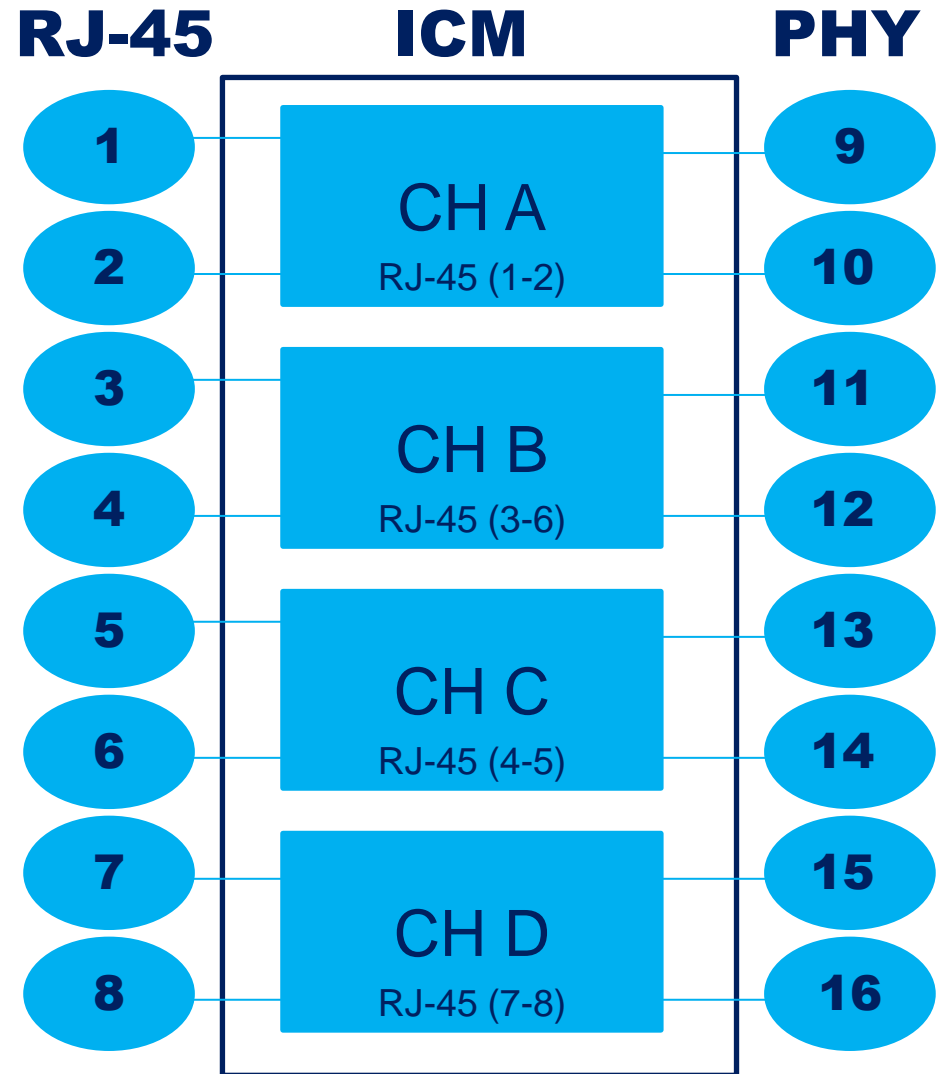
ICM (INTEGRATED CONNECTOR MODULE)



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Sixteen port model

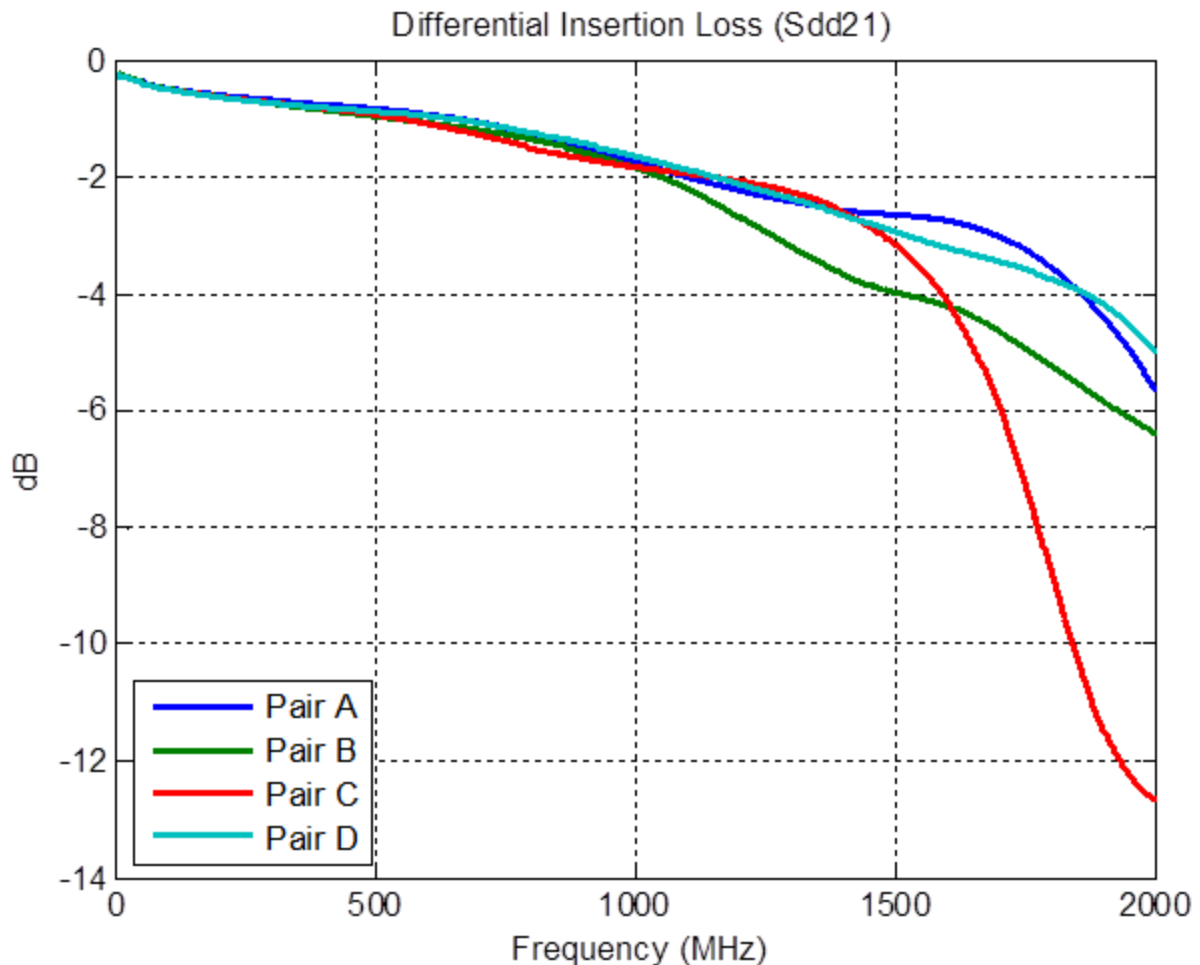
- VNA ports 1 and 2 are RJ-45 side
- VNA ports 3 AND 4 are PHY side
- E5071C ENA used
- Measurements made @ 50 Ohms single ended
- Swept 1MHz TO 2GHz
- 1601 points used, maximum allowed by E5071C
- Current testing done on standard RJ-45.



PORT NUMBERING PER ADHOC MODLE

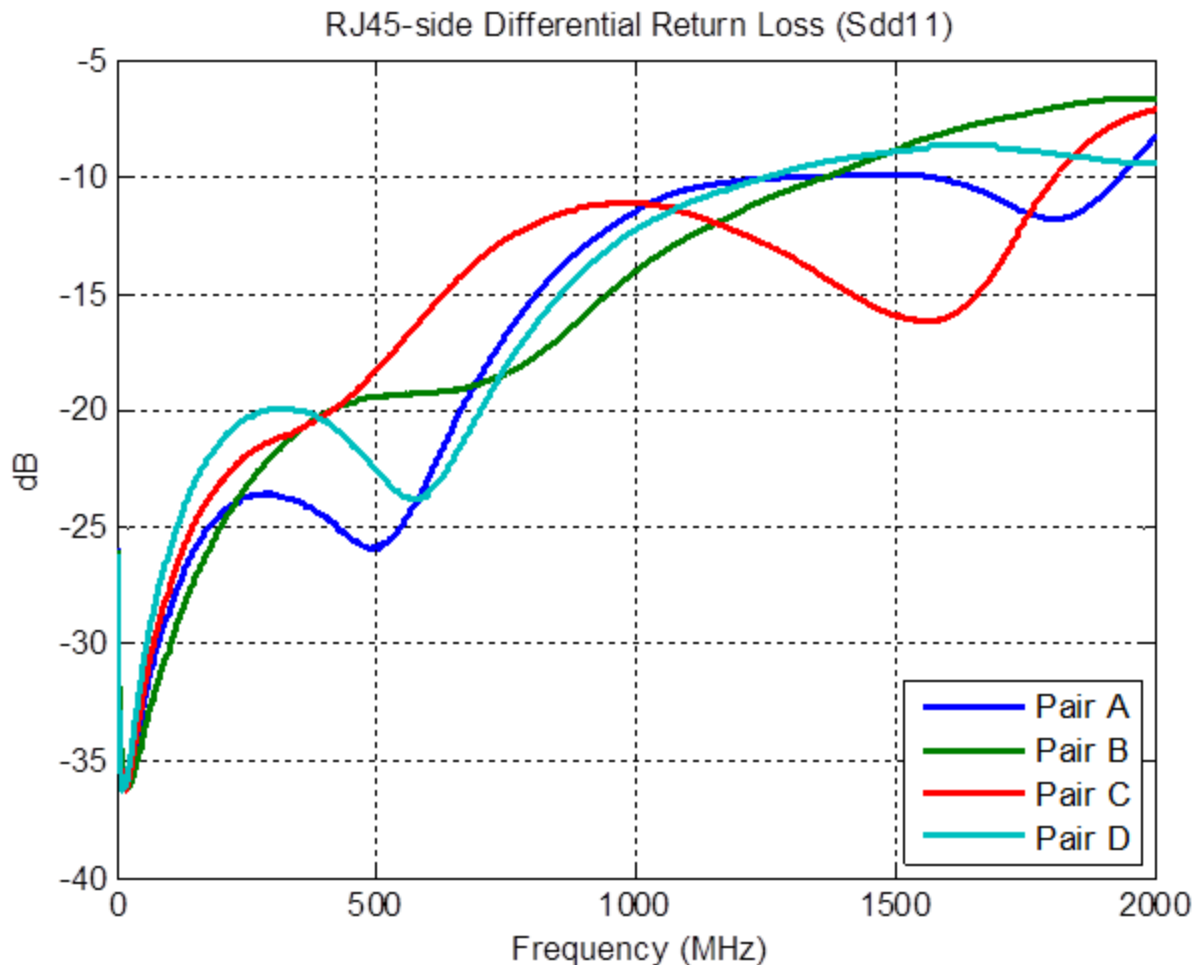
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Typical insertion loss



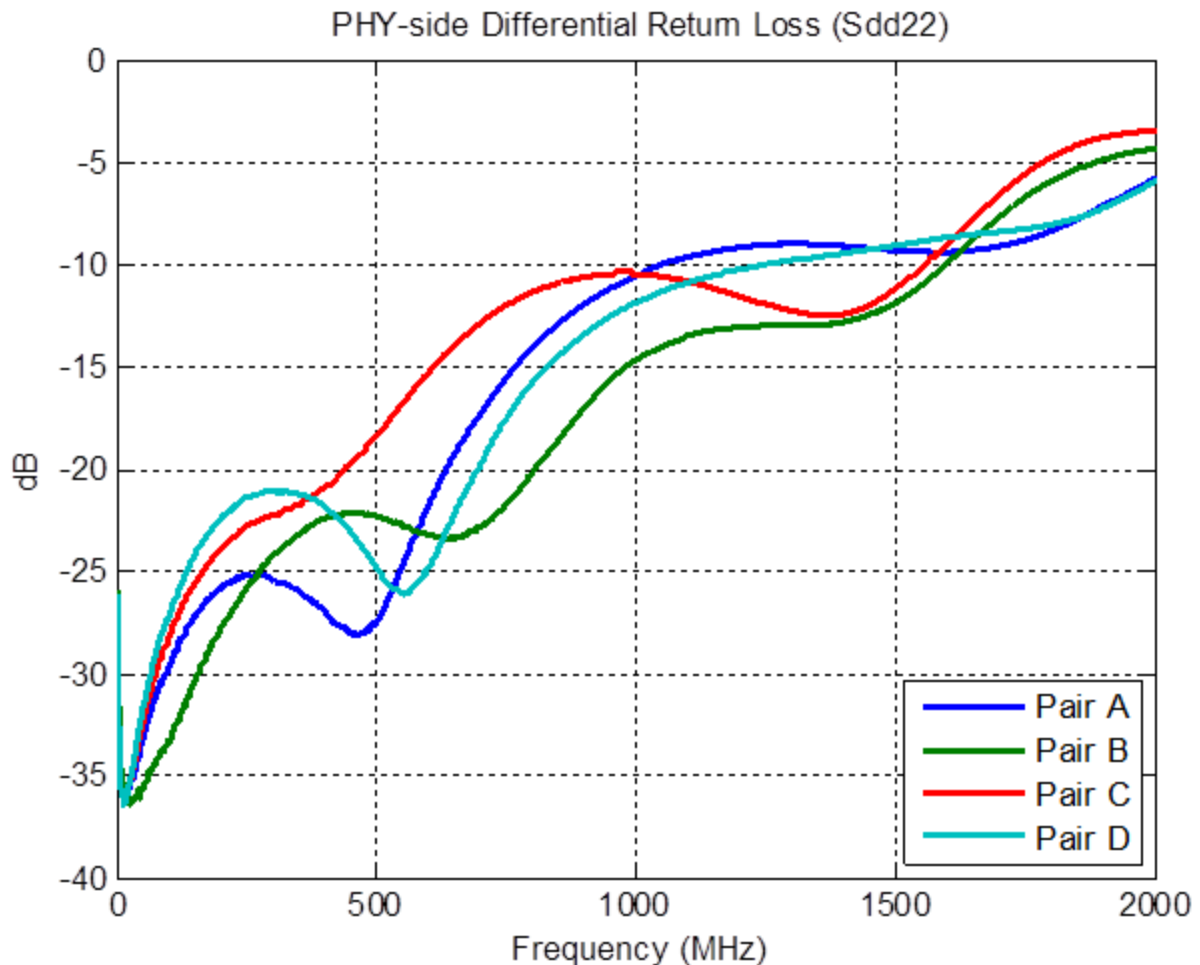
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Typical return loss



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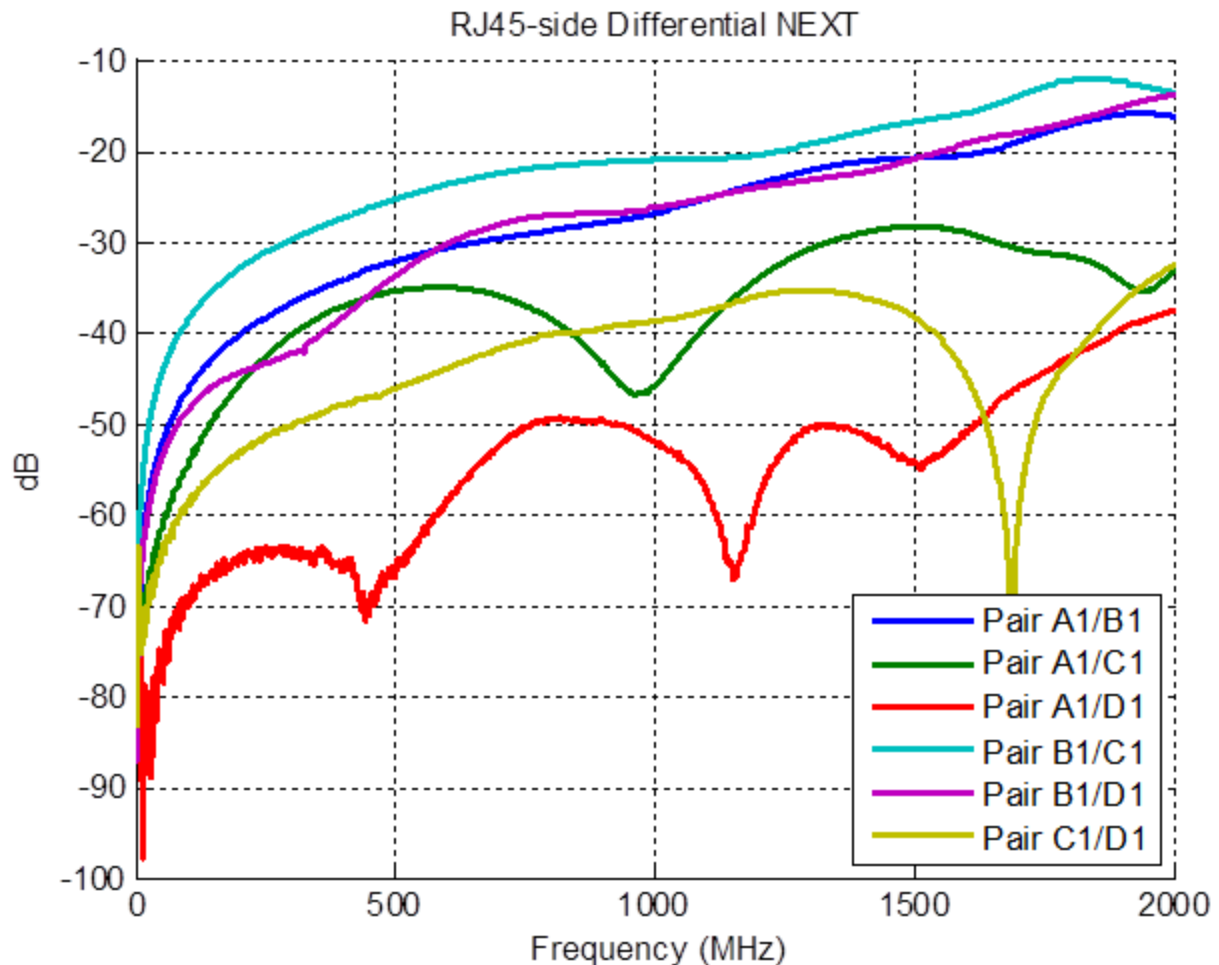
Typical return loss



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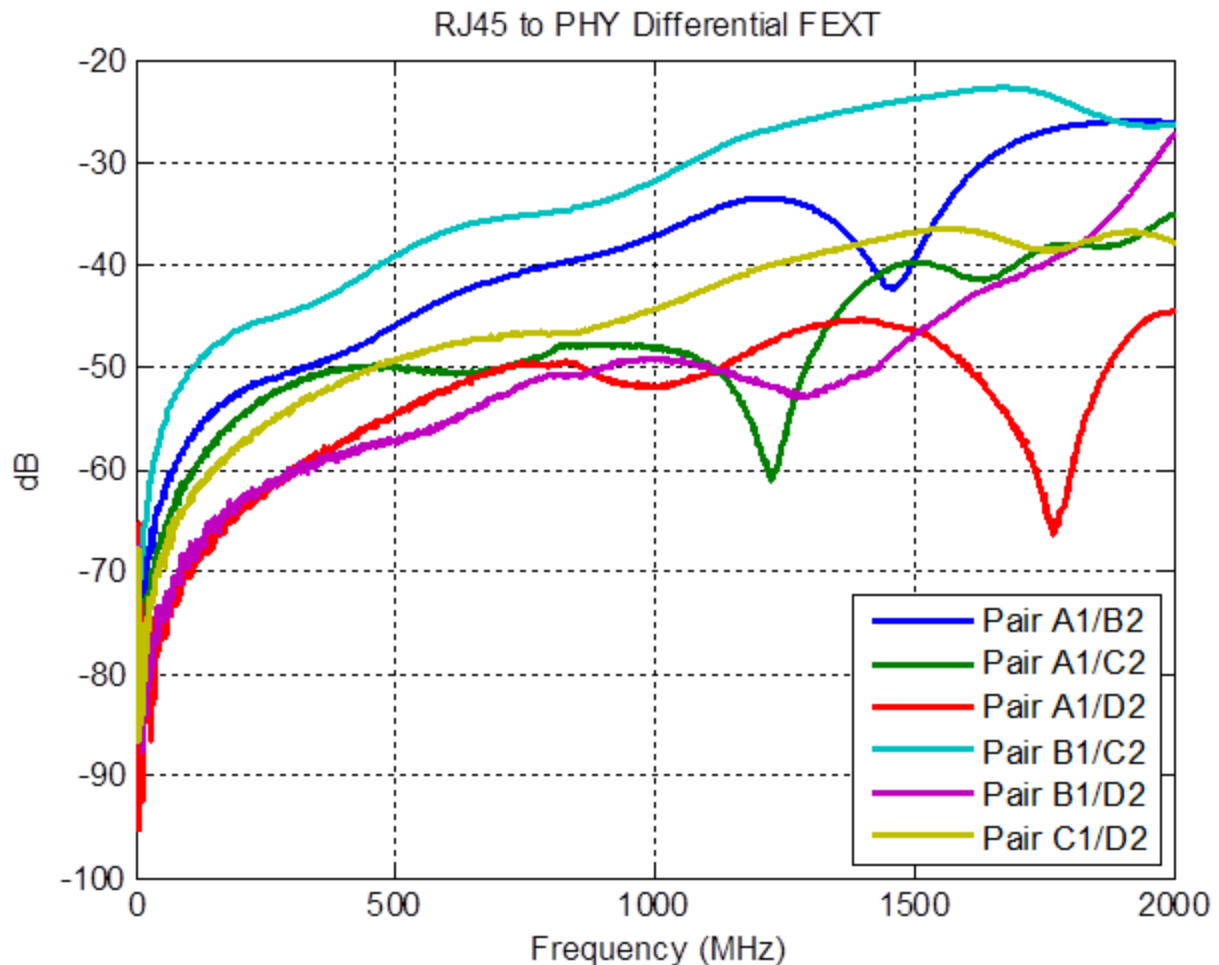
Typical NEXT



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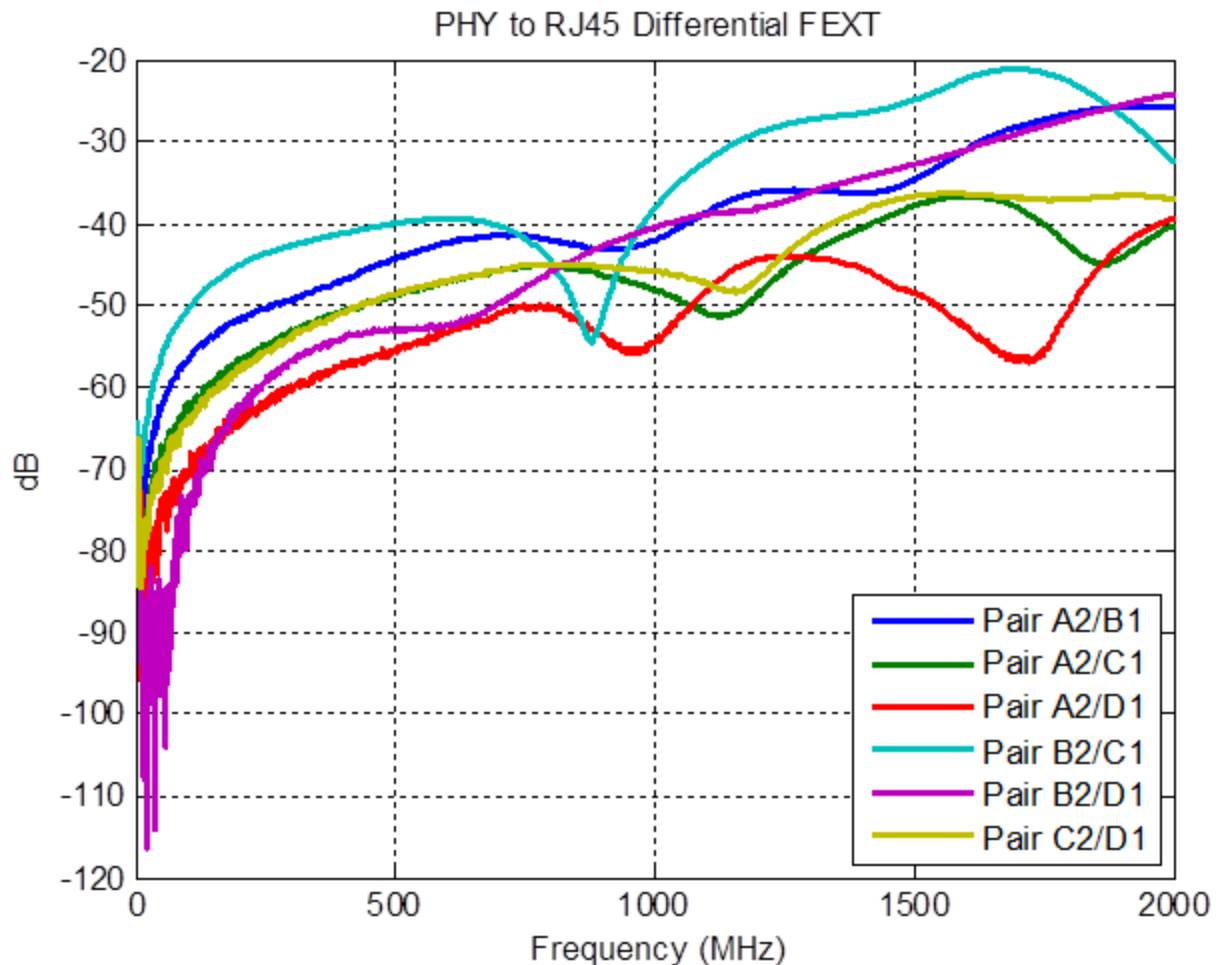
Typical FEXT



40GBASE-T ICM



Typical FEXT

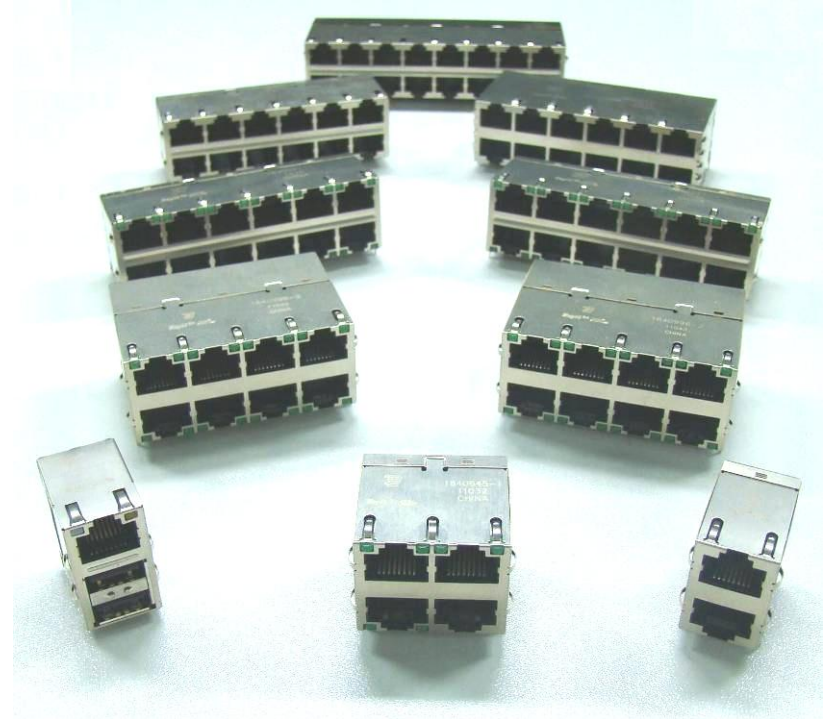


40GBASE-T ICM



Other parameters

- **OCL > 160uH**
- **Meets IEEE HIPOT specification**
- **Compatible with 2XN high density connectors**
- **Backward compatible 1G/10GBASE-T**
- **Forward compatible to Category 8.2 (Class II)**



40GBASE-T ICM

THANK YOU!

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