40GBASE-T RJ45 ICM rev2

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I. 40G ICM Design

➢Keep current FCC RJ45 interface.

➢Use optimized RJ45 contact design.

II. ICM Test Setup

VNA Configuration	
VNA Model	E5071C ENA
Start Freq	1 MHz
Stop Freq	2 GHz
Measurement	50Ω, Single Ended
Port Configuration	
RJ-45 Side	Ports 1, 2
PHY Side	Ports 3, 4
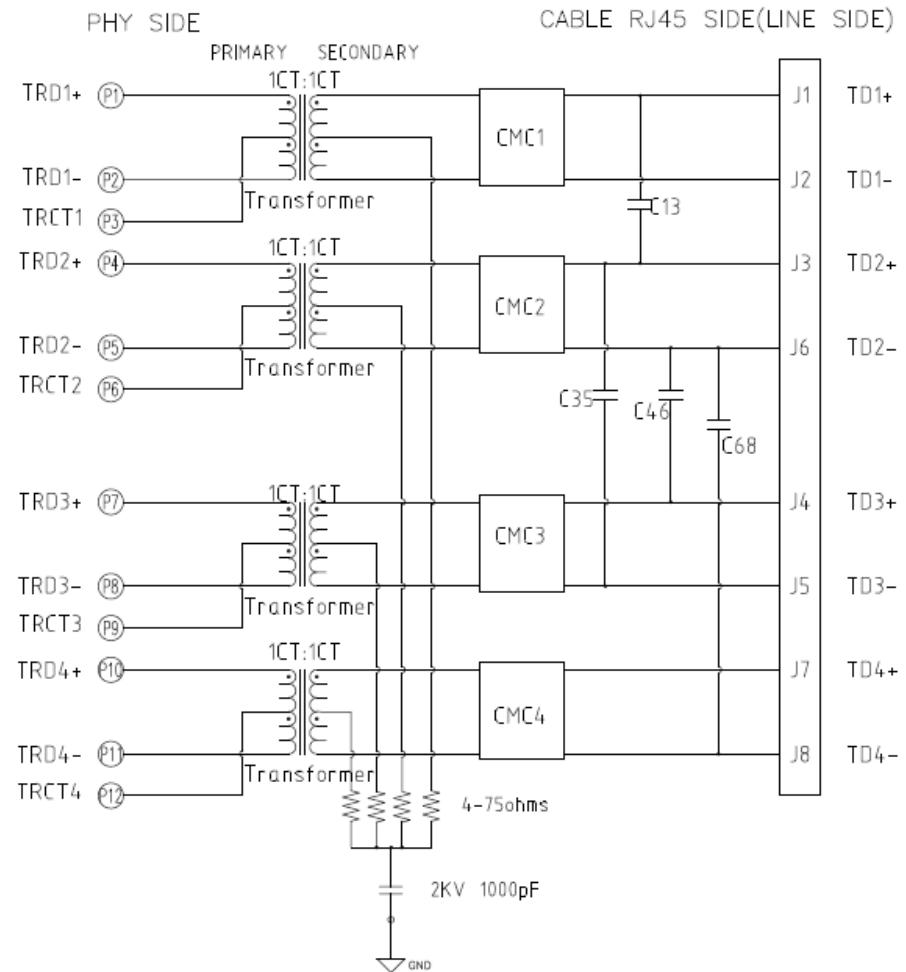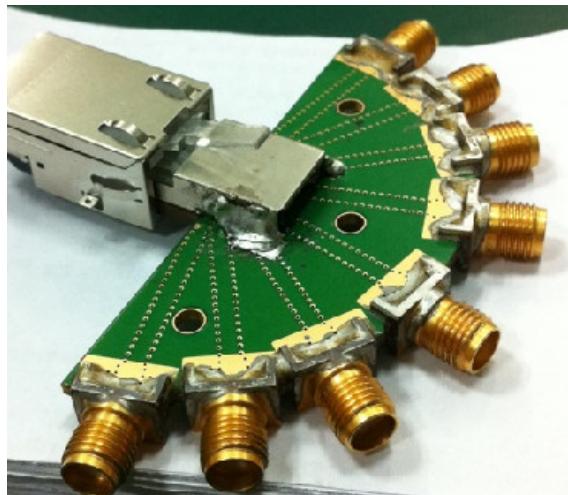
III. ICM S-parameter test

Insertion Loss

Differential Insertion Loss Sdd21
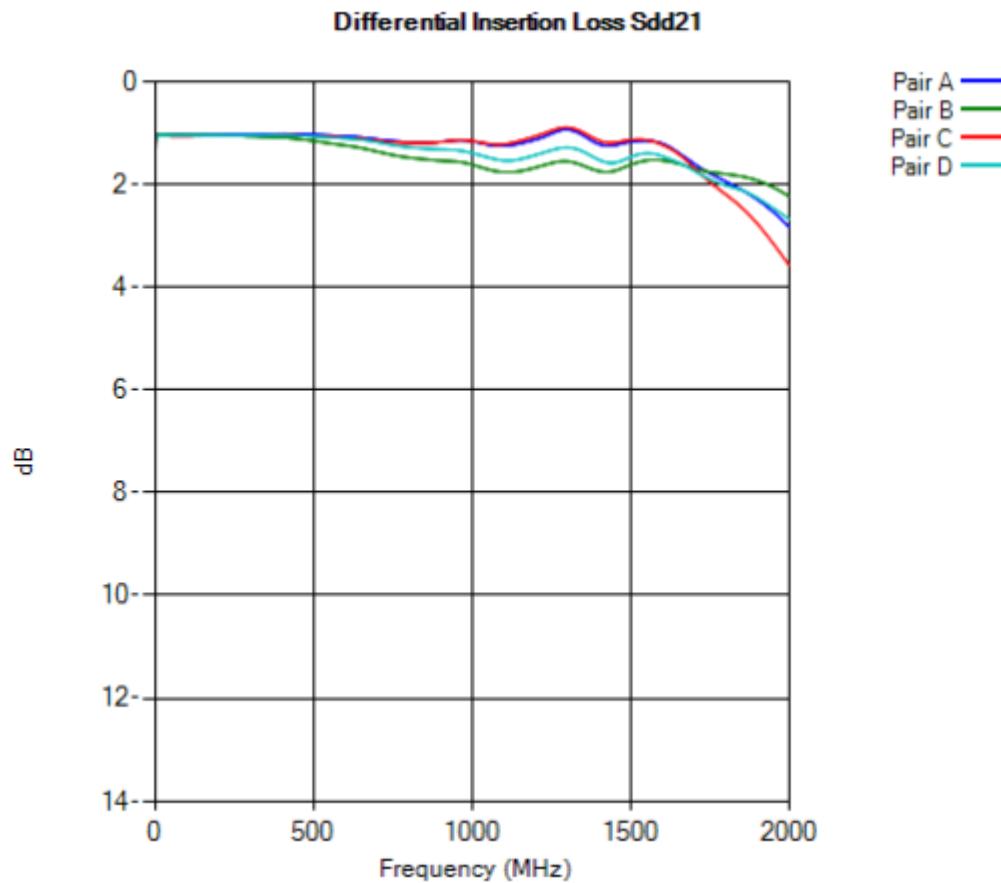
III. ICM S-parameter test

RJ45-side Return Loss

RJ45-side Differential Return Loss Sdd11

Pair A
Pair B
Pair C
Pair D
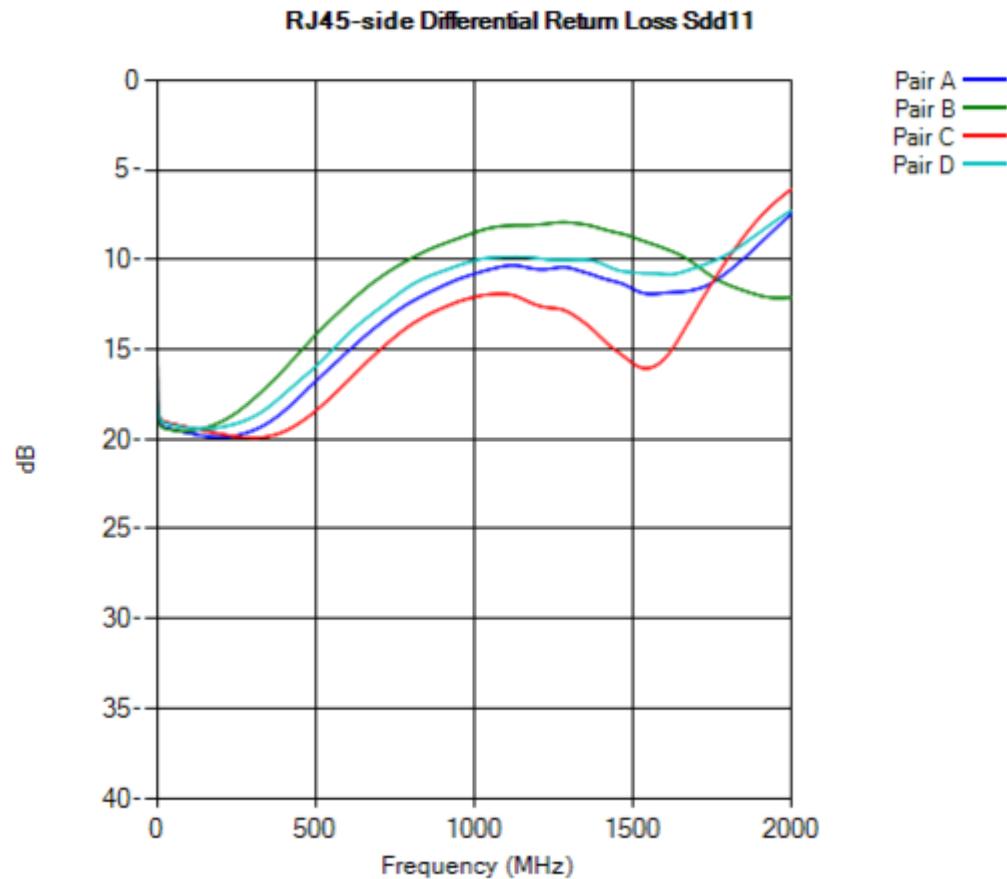
III. ICM S-parameter test

PHY-side Return Loss
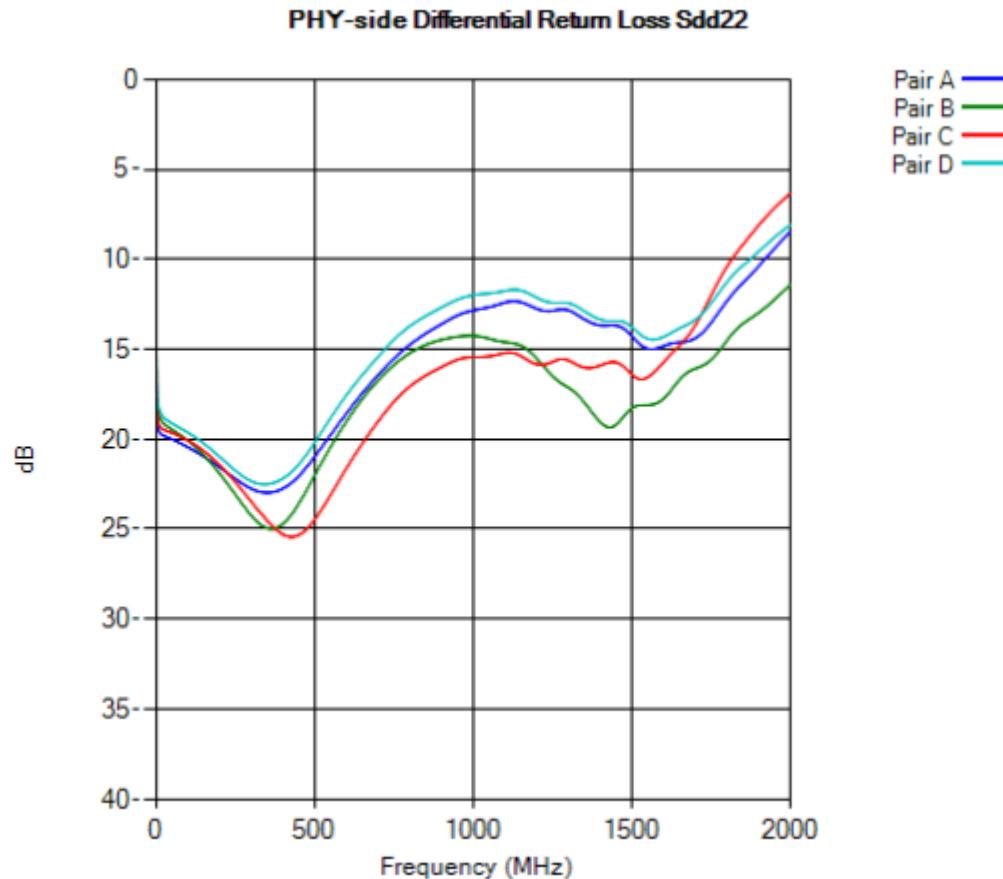
PHY-side Differential Return Loss Sdd22

III. ICM S-parameter test

RJ45-side NEXT

RJ45-side Differential NEXT

III. ICM S-parameter test

PHY-side NEXT

PHY-side Differential NEXT
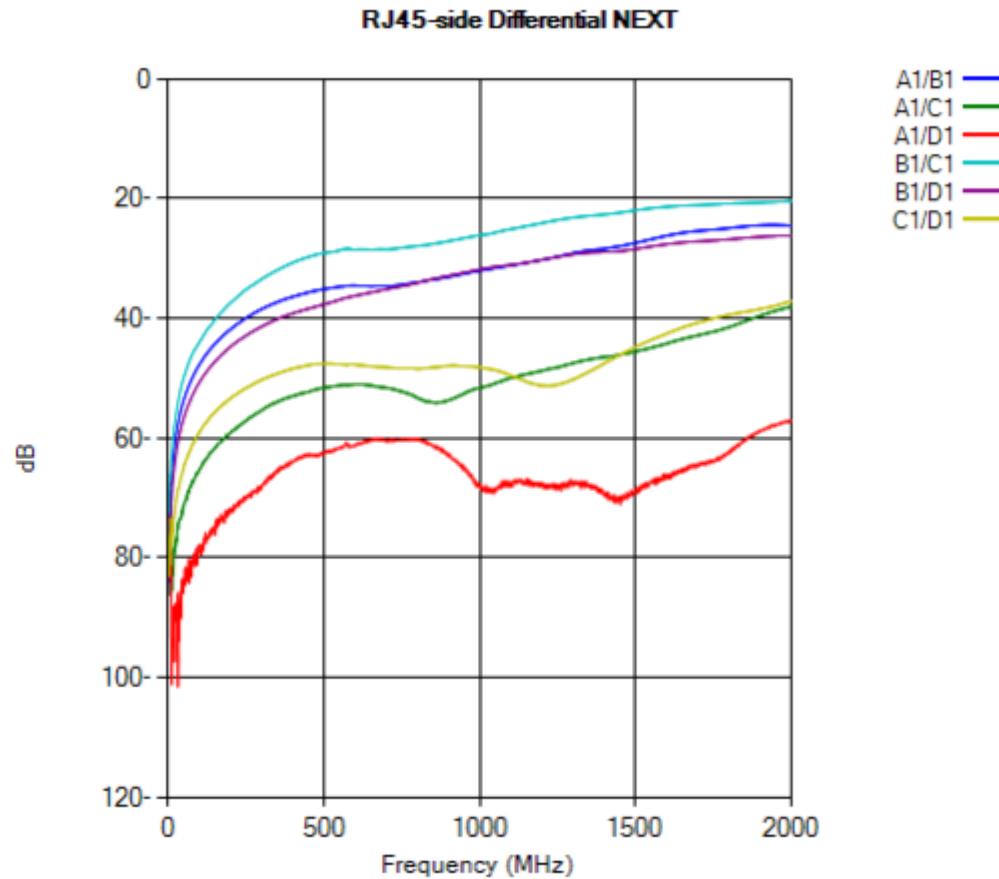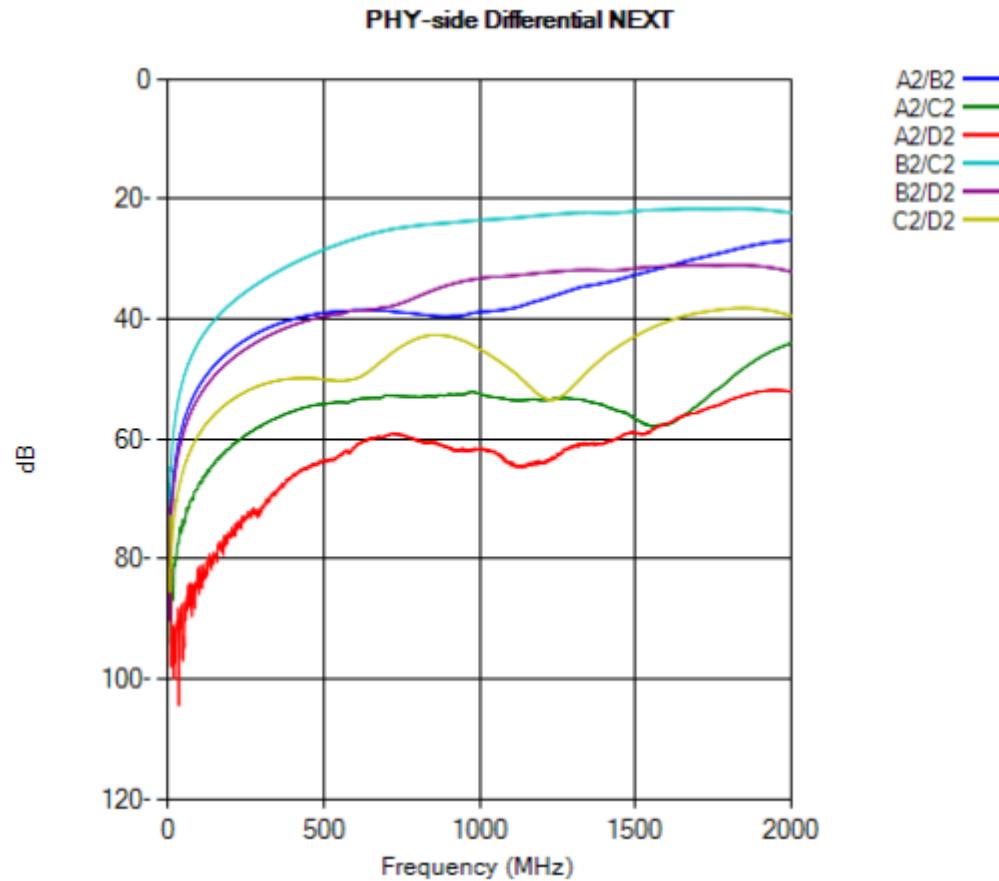
III. ICM S-parameter test

RJ45 to PHY FEXT

RJ45 to PHY Differential FEXT
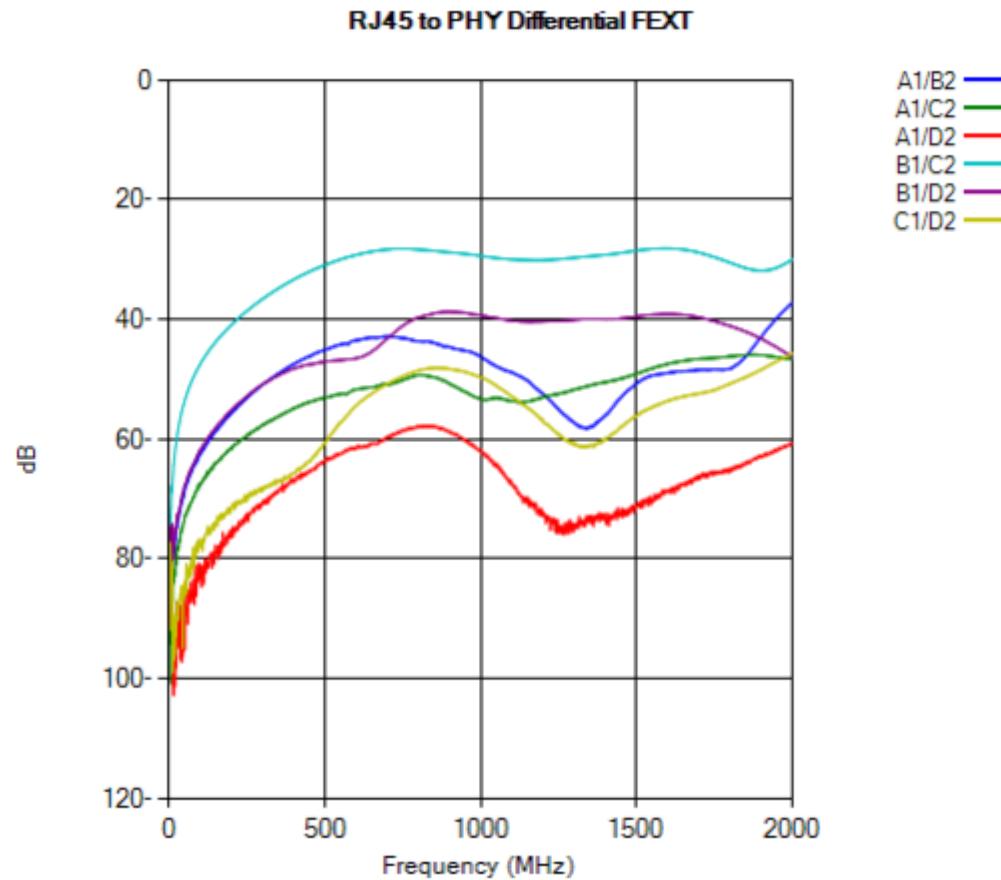
III. ICM S-parameter test

PHY to RJ45 FEXT

PHY to RJ45 Differential FEXT
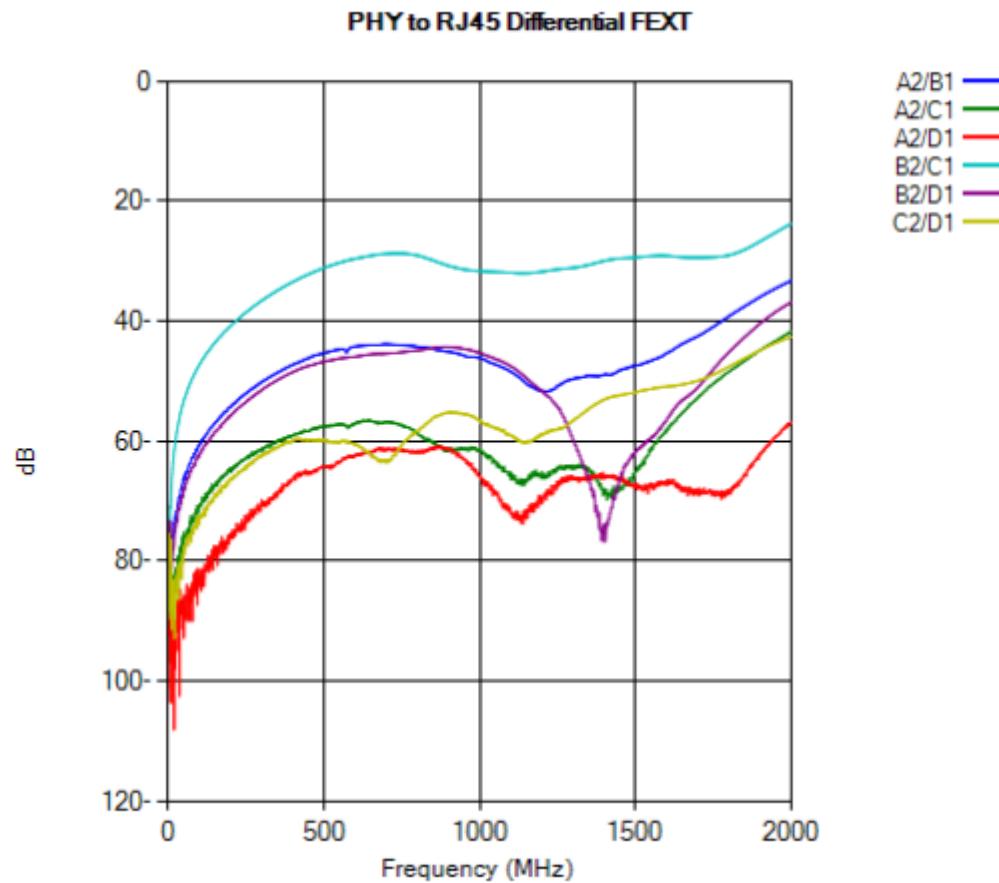
IV. Other parameters

- **Meet IEEE HiPOT specification**
- **Backward compatible with 10G/1G standard RJ 45 configuration**
- **Compatible with 2xN high density port**

Thanks!