
MTF FOMILD

Comments #142, 48, 88, 218

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Comments #142, 48, 88, 218

CI 162B SC 162B.1.3.1 P 269 L 36 # 48
 Ghiasi, Ali Ghiasi Quantum/Inphi
 Comment Type TR Comment Status D MTF FOMILD
 FOMILD of 0.13 dB is horibale for an MTF and it is signifcnalty larger than Lim 2 inch channel with 5 dB
 SuggestedRemedy
 Reduce reduce ILD to 0.075, please ghiasi_3ck_01_0421
 Proposed Response Response Status W
 PROPOSED REJECT.
 Resolve using the response to comment #142.

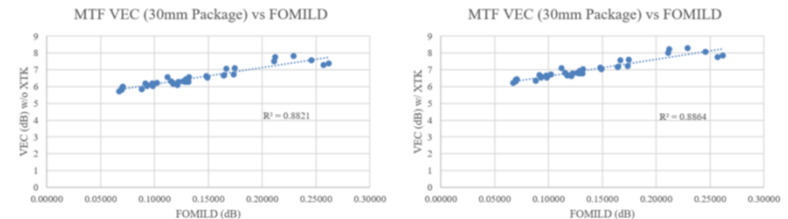
CI 162B SC 162B.1.3.1 P 269 L 36 # 88
 Tracy, Nathan TE Connectivity
 Comment Type TR Comment Status D MTF FOMILD
 FOM_ILD limit of 0.13 dBdoes not allow for manufacturing variations of mated test boards
 SuggestedRemedy
 change limit to 0.18dB
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 [Editor's note: Changed subclause from 162B.1.3 to 162B.1.3.1]
 Resolve using the response to comment #142.

CI 162B SC 162B.1.3.1 P 269 L 36 # 142
 Champion, Bruce TE Connectivity
 Comment Type TR Comment Status D MTF FOMILD
 FOM_ILD is set at 0.13 dB and is too stringent for the various form factors and MTF manufacturing variation
 SuggestedRemedy
 It is recommended to update this value to 0.18 dB
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Change P269 L36 - FOMILD value from 0.13 to 0.18; pivot comment: Comment#48 [0.075 dB], comment#218 [0.018 dB], Comment#88 [0.18 dB] see referenced presentation https://www.ieee802.org/3/ck/public/21_05/champion_3ck_01_0521.pdf

CI 162B SC 162B.1.3.1 P 269 L 36 # 218
 Haser, Alex Molex
 Comment Type T Comment Status D MTF FOMILD
 FOM_ILD limit is too strict for measured data
 SuggestedRemedy
 Relax FOM_ILD to 0.18 dB (see slide 11 of kocsis_3ck_adhoc_01_011321.pdf) →
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Resolve using the response to comment #142.

slide 11 of
 kocsis_3ck_adhoc_01_011321.pdf)

MTF FOMILD Requirement Replacing the TBD



- Adding maximum crosstalk to the MTF results in ~ +0.5dB VEC
- VEC and FOMILD are well correlated and VEC<7.5dB results in and FOMILD<0.187dB
- Recommend setting the MTF FOMILD requirement to 0.18dB for D1p5 release
 - Can be adjusted in future drafts if VEC requirements change or more MTF data becomes available