

P802.3ck C2M AUI Channel Grading Proposal

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Channel Information

Recommendation

Pass
Fail
Pass
Fail
Pass
Fail
TBD
TBD
Pass
TBD
Pass
Pass
Pass
Pass
TBD
Pass
Pass
TBD
Pass
TBD

ID	Channel Description	IL (dB)	ERL11 (dB)	ERL22 (dB)	ICN (mV)	FOM ILD	RX Required for TP1a		RX Required for Modules		
							A, B	C, D	A, B	C	FFE12Post
1	mellitz_3ck_01_0518_C2M\9dB	8.95	16.35	12.82	2.28	0.10	Pass	Pass	Pass	Marginal	Pass
2	mellitz_3ck_01_0518_C2M\10dB	9.96	7.79	10.41	4.53	0.48	Fail	Fail	Fail	Fail	Fail
3	mellitz_3ck_01_0518_C2M\11dB	11.16	18.28	14.13	1.93	0.09	Pass	Pass	Pass	Marginal	Pass
4	mellitz_3ck_01_0518_C2M\12dB	12.18	8.39	11.29	3.99	0.46	Fail	Fail	Fail	Fail	Fail
5	mellitz_3ck_01_0518_C2M\13dB	13.12	20.09	14.85	1.68	0.09	Pass	Pass	Pass	Marginal	Pass
6	mellitz_3ck_01_0518_C2M\14dB	13.87	8.73	12.52	3.19	0.47	Fail	Fail	Fail	Fail	Fail
7	tracy_100GEL_02_0118\long_barrel_via\TX5	16.48	14.98	11.58	0.91	0.28	Pass	Fail	Pass	Fail	Marginal
8	tracy_100GEL_02_0118\long_barrel_via\TX6	16.08	14.35	12.61	0.90	0.37	Marginal	Fail	Fail	Fail	Fail
9	tracy_100GEL_06_0118\Microvia\RX6	14.59	15.71	12.50	0.83	0.21	Pass	Pass	Pass	Marginal	Pass
10	tracy_100GEL_06_0118\Microvia\RX5	14.57	16.20	13.45	0.93	0.23	Marginal	Fail	Pass	Marginal	Marginal
11	lim_3ck_01_0319_QDD_new_pad\ch1	14.40	15.83	20.69	0.78	0.20	Pass	Pass	Marginal	Fail	Fail
12	lim_3ck_01_0319_QDD_new_pad\ch2	14.60	14.51	20.20	0.82	0.19	Pass	Marginal	Marginal	Fail	Fail
13	lim_3ck_01_0319_QDD_legacy_pad\ch3	14.69	16.04	15.98	0.77	0.20	Pass	Marginal	Pass	Marginal	Pass
14	llim_3ck_01_0319_QDD_legacy_pad\ch4	14.84	14.77	15.72	0.86	0.18	Pass	Fail	Pass	Marginal	Pass
15	llim_3ck_01_0319_QDD_new_pad\ch5	14.77	14.70	20.57	1.42	0.16	Pass	Fail	Marginal	Fail	Fail
16	llim_3ck_01_0319_QDD_legacy_pad\ch6	15.02	15.01	15.90	1.55	0.17	Pass	Fail	Pass	Fail	Pass
17	ito_3ck_01\QSFP \bottom normal\	15.10	12.79	10.75	1.20	0.18	Pass	Pass	Pass	Marginal	Pass
18	ito_3ck_01\QSFP \bottom worst\	15.58	12.49	10.35	1.14	0.32	Marginal	Marginal	Marginal	Fail	Pass
19	ito_3ck_01\QSFP \top normal\	14.53	12.76	10.85	1.25	0.18	Pass	Pass	Pass	Pass	Pass
20	ito_3ck_01\QSFP \top worst\	14.49	12.43	10.37	1.21	0.31	Pass	Pass	Pass	Fail	Pass

- Parameters highlighted in red are worse than 10.5dB ERL, 2.5mV ICN, or 0.35dB ILD.
- ERL is reported with the settings for reference receiver with 15mm package and 4-tap DFE at TP1a. ERL11 is for channel only. ERL22 is at TP1a including TX package.
- Channel names in red are tough channels for most of the receivers.
- For receiver pass/fail results, 15mm and 30mm host package traces are considered. Marginal means fail but close to the thresholds (violate by less than 0.5 dB).