

Please configure project comments

CI 00 SC P L # 2  
 D'Ambrosia, John Dell  
 Comment Type ER Comment Status X  
 Modify definitions in 1.4 for PSE and PD types  
 SuggestedRemedy  
 Add definitions for 1.4  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.1 P 26 L # 3  
 D'Ambrosia, John Dell  
 Comment Type ER Comment Status X  
 PDs are already defined in 802.3. See 1.4.402 and 1.4.404  
 SuggestedRemedy  
 add definitions to 1.4 for types of PDs for PoDL  
 Proposed Response Response Status W  
 NonEz.

CI 00 SC 0 P L # 4  
 D'Ambrosia, John Dell  
 Comment Type TR Comment Status X  
 pics are needed  
 SuggestedRemedy  
 add pics  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.6 P 29 L 6 # 5  
 Gardner, Andrew Linear Technology Cor  
 Comment Type E Comment Status X  
 The additional information column for Table 104-6 on page 29 is empty.  
 SuggestedRemedy  
 Populate the additional information column with references to the relevant subclauses for each item.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.3 P 28 L 1 # 6  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The PD state diagram needs to be revised to be consistent with the new requirement that a sleeping PD remove its MPS prior to entering sleep.  
 SuggestedRemedy  
 Revise the PD state diagram as proposed in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.4 P 22 L 1 # 7  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 There are several TBDs in Table 104-2.  
 SuggestedRemedy  
 Replace the TBDs with limits as proposed in gardner\_3bu\_3\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.4 P 21 L 1 # 8  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The detection state diagram shown in Figure 104-5 incorporates a new timer called vsig\_hold\_timer, but the value for this timer is not specified in Table 104-2.  
 SuggestedRemedy  
 Add an entry to Table 104-2 for the vsig\_hold\_timer as proposed in gardner\_3bu\_3\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

CI 104 SC 104.3.4 P 21 L 46 # 9  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The slew rate specification for Idetect in Table 104-2 is TBD.  
 SuggestedRemedy  
 Replace the TBD for Idetect max slew rate with the value proposed in gardner\_3bu\_2\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.4 P 29 L 17 # 12  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The PD detection signature characteristics listed in Tables 104-4 and 104-5 conflict with the voltage required for a sleeping PHY (3.3V).  
 SuggestedRemedy  
 Revise the limits in Table 104-4 and 104-5 as proposed in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.3.1 P 26 L 27 # 10  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The overview of the PD's behavior needs to be revised in order to be consistent with requirements for a sleeping PD.  
 SuggestedRemedy  
 Replace with baseline text as proposed in gardner\_3bu\_1.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.4 P 29 L 37 # 13  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The min limit for Cbad in Table 104-5 is TBD.  
 SuggestedRemedy  
 Replace the Cbad min TBD with the limit proposed in gardner\_3bu\_3\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.4 P 29 L 1 # 11  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The baseline text in this subclause needs to be revised to reflect the requirements for wakeup from the PD sleep.  
 SuggestedRemedy  
 Revise the baseline text in subclause 104.4.4 as proposed in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.6 P 30 L 6 # 14  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 Items 1-3 in Table 104-6 are TBDs.  
 SuggestedRemedy  
 Replace the TBDs for items 1-3 in Table 104-6 with limits proposed in gardner\_3bu\_2\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

CI 104 SC 104.4.6.1 P 31 L 22 # 15  
 Gardner, Andrew Linear Technology Cor  
 Comment Type E Comment Status X  
 There appear to be extra carriage returns after subclause 104.4.6.1.  
 SuggestedRemedy  
 Remove the extra carriage returns.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.6 P 30 L 48 # 16  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The limits for items 6 and 7 in Table 104-6 are TBD.  
 SuggestedRemedy  
 Replace the TBDs for items 6 and 7 with limits proposed in gardner\_3bu\_3\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.6 P 31 L 6 # 17  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The limits for items 8 and 9 in Table 104-6 are TBD.  
 SuggestedRemedy  
 Replace the TBDs for items 8 and 9 in Table 104-6 with limits proposed in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.6.5 P 32 L 11 # 18  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 There is no corresponding entry in Table 104-6 for tsleep.  
 SuggestedRemedy  
 Replace tsleep with a hard limit as proposed in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.4.7 P 32 L 21 # 19  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The text in subclause 104.4.7 needs to be revised to state that valid MPS shall be presented when the PD wishes to receive full-power at the MDI/PI. In addition, the MPS requirements need to be revised to be consistent with the new MPS requirements that are being proposed for the PSE.  
 SuggestedRemedy  
 Revise the text in subclause 104.4.7 as proposed in gardner\_3bu\_1\_0915.pdf.

Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.5.3 P 32 L 47 # 20  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The text "All other Ethernet physical layers should refer to their respective clauses for PHY electrical specifications" is potentially problematic. For example, the transmitter test fixtures called out in both 802.3bp and 802.3bw use DC coupled terminations or baluns.  
 SuggestedRemedy  
 Ask 802.3bw and 802.3bp to add low loss AC coupling capacitors into the transmitter test fixtures in order to make them compatible with PoDL PSE and PD PHY transmitters.

Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.5.3.1 P 33 L 9 # 21  
 Gardner, Andrew Linear Technology Cor  
 Comment Type E Comment Status X  
 Footnote 1 is informative.  
 SuggestedRemedy  
 Either move footnote 1 to an informative annex or delete it.  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

CI 104 SC 104.6.3.4 P 37 L 1 # 22  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 Item 3 has a TBD for the min limit.  
 SuggestedRemedy  
 Replace the item 3 TBD with the value proposed in gardner\_3bu\_4\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.6.3.4 P 37 L 1 # 23  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The electrical limits in Table 104-7 are not compatible with the shunt capacitance presented by a 100BASE-T1 PHY.  
 SuggestedRemedy  
 Revise the electrical limits as proposed in gardner\_3bu\_4\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.6.4.4 P 41 L 12 # 24  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The baseline text for subclause 104.6.4.4 is TBD.  
 SuggestedRemedy  
 Incorporate the baseline text as proposed in gardner\_3bu\_4\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.2 P 15 L 23 # 25  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The maximum allowed DC loop resistance of 6.5 ohms is limiting for the 1W PD unregulated 12V class. As is, the PSE source resistance must be less than 0.86 ohms and VPDmin is 3.75V which is pushing VOFF down to 3.6V.  
 SuggestedRemedy  
 Reduce the max loop resistance. For example, reducing the max loop resistance to 6 ohms would allow the VPD,min to increase to 4V and the max PSE source resistance to increase to 1 ohm.

Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.3.4.1 P 21 L 42 # 26  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 Item 2 in Table 104-2, short circuit current, only needs a max limit. The minimum is implied by the max value for item 3, valid test probe current.  
 SuggestedRemedy  
 Remove 20mA from the minimum value column for item 2 in Table 104-2.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.6.2 P 24 L 39 # 27  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The limits for ripple noise in Table 104-3 are TBD.  
 SuggestedRemedy  
 Replace the TBDs with limits as proposed in gardner\_3bu\_2\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

CI 104 SC 104.3.6 P 23 L 41 # 28  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 Items 2 & 5 in Table 104-3 are TBDs.  
 SuggestedRemedy  
 Replace the TBDs with limits as proposed in gardner\_3bu\_2\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.6 P 23-24 L # 29  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 Items 8, 9, and 11 are TBD in Table 104-3.  
 SuggestedRemedy  
 Replace TBDs with limits as proposed in gardner\_3bu\_3\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.6.6 P 25 L 16 # 30  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The value for the test resistor specified in 104.3.6.6 is TBD.  
 SuggestedRemedy  
 Replace the TBD with the value proposed in gardner\_3bu\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.7 P 25 L 38 # 31  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 Removing power entirely from the PI in the absence of MPS is incompatible with the requirements for a sleeping PD.  
 SuggestedRemedy  
 Reword subclause 104.3.7 as described in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.7.1 P 25 L 43 # 32  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The requirements for MPS need to be re-evaluated given the requirement to maintain a reduced power level at the PI when a PD goes to sleep.  
 SuggestedRemedy  
 Reword subclause 104.3.7.1 as described in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.3 P 16 L 31 # 33  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The PSE state diagram needs to be revised in order to be consistent with the requirement that a PD that no longer exhibits valid MPS should receive sleep bias.  
 SuggestedRemedy  
 Revise the PSE state diagram and MPS state diagram as described in gardner\_3bu\_1\_0915.pdf.  
 Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.3.4 P 22 L 1 # 34  
 Gardner, Andrew Linear Technology Cor  
 Comment Type T Comment Status X  
 The maximum output capacitance of 1nF allowed during detection in Table 104-2 may be limiting.  
 SuggestedRemedy  
 Change the value as proposed in gardner\_3bu\_3\_0915.pdf.  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

CI 104 SC 104.2 P 15 L 29 # 35  
 Dwelley, David Linear Technology  
 Comment Type T Comment Status X  
 Table 104-1: It's not clear to me that we need 48V unreg classes. 48V vehicles will typically not use 4 12V lead-acid cells in series, and "cold crank" behavior will be quite different from 12V and 24V classes.  
 SuggestedRemedy  
 Consider removing classes 8 and 9.  
 Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.3.3.4 P 17 L 25 # 37  
 Dwelley, David Linear Technology  
 Comment Type T Comment Status D  
 MPS stands for "maintain power signature" - with the new sleep mode, this isn't directly relevent - "maintain full voltage signature" is perhaps more descriptie  
 SuggestedRemedy  
 Change MPS to MFVS throughout  
 Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.3.6 P 22 L 53 # 42  
 Dwelley, David Linear Technology  
 Comment Type E Comment Status X  
 "...electrical limits set out in Table..."  
 "set out" is unneeded  
 SuggestedRemedy  
 Remove "set out"  
 Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.6.4.3 P 39 L 6 # 43  
 Dwelley, David Linear Technology  
 Comment Type E Comment Status X  
 Table 104-8: type A and type B terms are used but never defined.  
 SuggestedRemedy  
 Remove "type A" and "type B" and the parens around 100BASE-T1 and 1000BASE-T1.  
 Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.3.6 P 23 L 1 # 50  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Table reference error  
 SuggestedRemedy  
 Change table reference from "Table 104-5" to "Table 104-3"  
 Proposed Response Response Status W  
 NonEZ.

CI 104 SC 104.3.6 P 23 L 7 # 51  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Table 104-3  
 Adjust the item sequence in this table so that the reader can read it in a more logical way. Also consider the item sequence in Table 104-6. The reader may read these two tables together in the end. So try to make these two tables organized to be read more easily in parallel.  
 SuggestedRemedy  
 1. Move item 4 before Item 2  
 2. Move item 5 before Item 3  
 Proposed Response Response Status W  
 NonEZ.

Please configure project comments

CI 104 SC 104.3.6 P 23 L 42 # 52  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Subclause reference error.  
 SuggestedRemedy  
 Not sure there is a subclause that could be referenced for this item 5  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.6.3.2 P 36 L 8 # 56  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Figure 104-11 reference error, line 34 has the same error.  
 SuggestedRemedy  
 Change "Figure 104-11" to "Figure 104-10"  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.3.6 P 24 L 23 # 53  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Subclause 104.3.6.5 reference error  
 SuggestedRemedy  
 Change subclause reference "104.3.6.5" to "104.3.6.4" for item 18 and 19 in Table 104-3  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.6.4.3 P 38 L 39 # 57  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Figure reference error, has same error in line 50  
 SuggestedRemedy  
 Line 39: change Figure 104-12 to Figure 104-11  
 Line 50: change Figure 104-13 to Figure 104-12  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.6.3.1 P 35 L 31 # 54  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Figure 104-10 reference error  
 SuggestedRemedy  
 Change "Figure 104-10" to "Figure 104-9"  
 Proposed Response Response Status W  
 NonEz.

CI 104 SC 104.6.3.2 P 36 L 7 # 55  
 XU, Dayin Rockwell Automation  
 Comment Type ER Comment Status X  
 Change "... pulling it PI port ..." to "... pulling its PI port ..."  
 SuggestedRemedy  
 Change "... pulling it PI port ..." to "... pulling its PI port ..."  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

CI 104 SC 104.4.6 P 29 L 48 # 58  
 XU, Dayin Rockwell Automation

Comment Type ER Comment Status X  
 Consider align the structure of this subclause to the subclause 104.3.6.

- The structure of 104.3.6
- 104.3.6.1 Output voltage
- 104.3.6.2 Power feeding ripple and noise
- 104.3.6.3 Overload current
- 104.3.6.4 Output current
- 104.3.6.5 Turn on time
- 104.3.6.6 Turn off time
- 104.3.6.7 Continuous output power in POWER\_ON state
- 104.3.6.8 PSE stability

- The structure of 104.4.6
- 104.4.6.1 PD input voltage
- 104.4.6.2 Input average power
- 104.4.6.3 PD stability
- 104.4.6.4 PD ripple and noise
- 104.4.6.5 Input current

these two structure could be organized better for easy reading.

SuggestedRemedy

Here are suggested changes:

- Change the structure of 104.3.6 to
- 104.3.6.1 Output voltage
- 104.3.6.2 Output current
- 104.3.6.3 Power feeding ripple and noise
- 104.3.6.4 Overload current
- 104.3.6.5 Turn on time
- 104.3.6.6 Turn off time
- 104.3.6.7 Continuous output power in POWER\_ON state
- 104.3.6.8 PSE stability

- Change the structure of 104.4.6 to
- 104.4.6.1 PD input voltage
- 104.4.6.2 Input current
- 104.4.6.3 PD ripple and noise
- 104.4.6.4 Input average power
- 104.4.6.5 PD stability

Proposed Response Response Status W  
 NonEz.

CI 104 SC 3.3.6 P 19 L 12 # 59  
 Donahue, Curtis UNH-IOL

Comment Type E Comment Status X  
 Should "PD information byte" be "PD\_information\_byte"?

SuggestedRemedy  
 See comment.

Proposed Response Response Status W  
 NonEz.

CI 104 SC 3.4 P 21 L 25 # 60  
 Donahue, Curtis UNH-IOL

Comment Type E Comment Status X  
 "the link segment may not be called out to preserve clarity". I'm not sure I understand what this is trying to tell the reader. Not mentioning the link segment preserves clarity? Is saying this even necessary?

SuggestedRemedy  
 Remove last sentence of paragraph if its not necessary.

Proposed Response Response Status W  
 NonEz.

CI 104 SC 3.4.1 P 22 L 2 # 61  
 Donahue, Curtis UNH-IOL

Comment Type E Comment Status X  
 Table 104-2 on page 15 should have "(continued)" at the end since its split across 2 pages. Same for Table 104-3 on pg 24, and Table 104-6 on pg 31.

SuggestedRemedy  
 See comment. I thought FrameMaker fixed this automatically, guess not.

Proposed Response Response Status W  
 NonEz.



Please configure project comments

Cl 104 SC 3.6 P 22 L 46 # 62  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 Remove "section" before "104.6".  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 NonEz.

Cl 104 SC 4.5 P 29 L 44 # 66  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 Remove "section" before "104.6".  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 NonEz.

Cl 104 SC 4.3.1 P 26 L 29 # 63  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 Remove "section" before "104.4.4".  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 NonEz.

Cl 104 SC 4.6.3 P 31 L 36 # 67  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 There should be a multiplication operator before the "W" in equation 104-1.  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 NonEz.

Cl 104 SC 4.4 P 29 L 8 # 64  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 Change "consistsof" to "consists of".  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 NonEz.

Cl 104 SC 4.6.3 P 31 L 42 # 68  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 Looks like the variable definitions for equaiton 104-1 is an inserted image, or the font is just wonky. Additionally "W" is not defined.  
 SuggestedRemedy  
 Fix font of variable. Add definition for "W".  
 Proposed Response Response Status W  
 NonEz.

Cl 104 SC 4.6 P 29 L 50 # 65  
 Donahue, Curtis UNH-IOL  
 Comment Type E Comment Status X  
 Change "shalloperate" to "shall operate".  
 SuggestedRemedy  
 See comment.  
 Proposed Response Response Status W  
 NonEz.

Please configure project comments

Cl 104 SC 5.3.1 P 32 L 54 # 69  
 Donahue, Curtis UNH-IOL

Comment Type E Comment Status X

Theres a "1" representing a footnote marker but the footnote text is on the following page.

SuggestedRemedy

Use correct style in FrameMaker to keep footnote at the bottom of the page that the marker resides.

Proposed Response Response Status W

NonEz.

Cl 104 SC 5.3.1 P 33 L 12 # 70  
 Donahue, Curtis UNH-IOL

Comment Type E Comment Status X

This paragraph has duplicate text and unnecessary carrage returns in the middle of it.

SuggestedRemedy

Remove "and under all operating conditions" on line 15, and fix the returns.

Proposed Response Response Status W

NonEz.

Cl 104A SC 2 P 42 L 47 # 93  
 Donahue, Curtis UNH-IOL

Comment Type T Comment Status D

If "L is 2X the length of the link segment" then why not just have "2L" in the equation?

SuggestedRemedy

See comment.

Proposed Response Response Status W

NonEZ.

Cl 104 SC 104.5.1 P 33 L 8 # 94  
 Maguire, Valerie Siemon

Comment Type E Comment Status X

I believe the convention is to use "shall" when a specification is mandatory.

SuggestedRemedy

Consider replacing "must" with "shall".

Proposed Response Response Status W

NonEZ.

Cl 104 SC 104.5.3.1 P 32 L 50 # 95  
 Gardner, Andrew Linear Technology Cor

Comment Type T Comment Status X

Currently Clause 104 incorporates an amended return loss specification for 100BASE-T1 applications that use PoDL in order to relax the OCL requirement on the PoDL inductors by a factor of two. Given that the relative high-pass pole frequencies are the same for 1000BASE-T1, i.e. 10MHz HPF for 1000BASE-T1 vs. 1MHz HPF for 100BASE-T1, is there any reason why we can't do something similar for the 1000BASE-T1 MDI RL for PoDL?

SuggestedRemedy

Add an amended MDI return loss specification for 1000BASE-T1 PoDL applications as follows:

Return loss >=

18-18\*log10(20/f)dB for 2 <= f < 20  
 18dB for 20 <= f < 100  
 18-16.7\*log10(f/100)dB for 100 <= f < 600

where f is in MHz.

Proposed Response Response Status W

NonEZ.