

Measured interference tolerance
and
recommended Clause 93 spec.

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The measurements described in this presentation were made on the receiver in an Avago Technologies test part in a manner similar to that described in Annex 69A except we had no pattern generator which would provide a 25.78125 Gb pattern with 3 tap equalization so we used the transmitter of the same part as the pattern generator. This transmitter does not have controlled rise time and jitter so the receiver was somewhat under stressed. To take this under stress into account and in the interest of a manageable spec, I will recommend a spec 3dB less than the measured values.

The measurement I present do not represent the highest values achievable, or what we could do across PVT but I think my recommended values represent what will be possible across PVT by the time IEEE802.3bj is released as a spec.

Test	NyquistChannel loss	Target BER	Measured value	Recommended spec
1	15 dB	1×10^{-12}	14 mV	10 mV
2	30 dB	1×10^{-12}	3.9 mV	2.8 mV
3	30 dB	2×10^{-5}	8.9 mV	6.3 mV
4	35 dB	2×10^{-5}	4.5 mV	3.2 mV

Measure Interference tolerance and recommended spec