

PIERGIORGIO BERUTO GIAN MARCO BO

IEEE 802.3cg 10BASE-T1S minimum PSD mask *September 10th, 2018*



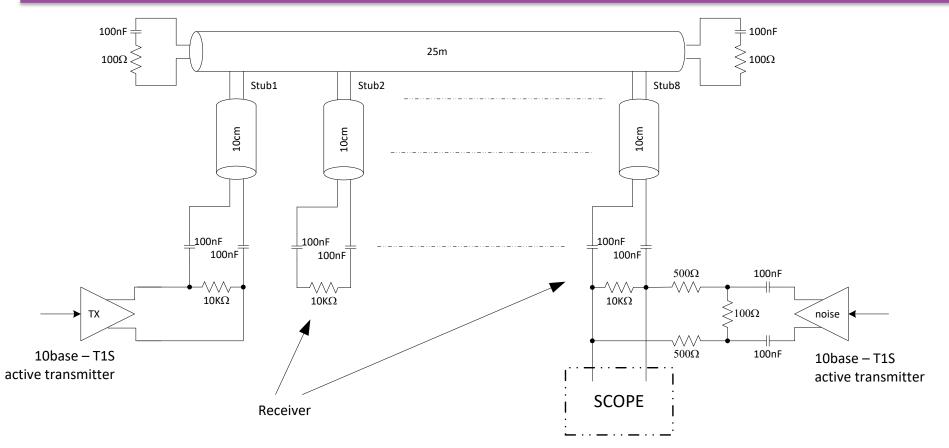
Public Document



- There have been a lot of discussion in the TF about the upper limit of the PSD mask but not as much for the lower limits.
- Marginalities have been observed under certain conditions when transmitting at lower PSD in presence of automotive environment noise.
- Propose to increase the lower PSD limit by +8db to compensate and gain a safe margin
- See comment #526







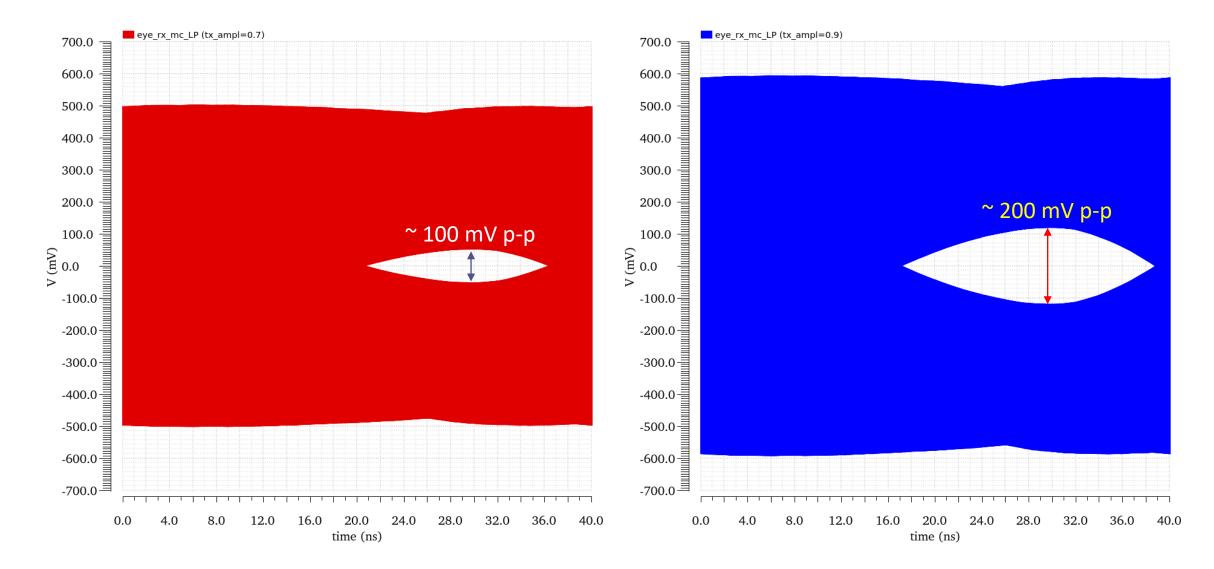
- 25 m, 8 Nodes
- 100 Ω ±1% line termination resistance
- $50\Omega \pm 20\%$ transmitters (high-Z when silent)
- BCI: Severity Class IV :30dBm for 3-200MHz

• MC 43dB





Eye Diagram: previous vs proposed min PSD



CANOVATECH The Art of Silicon Sculpting

Public Document

THANK YOU!



Public Document