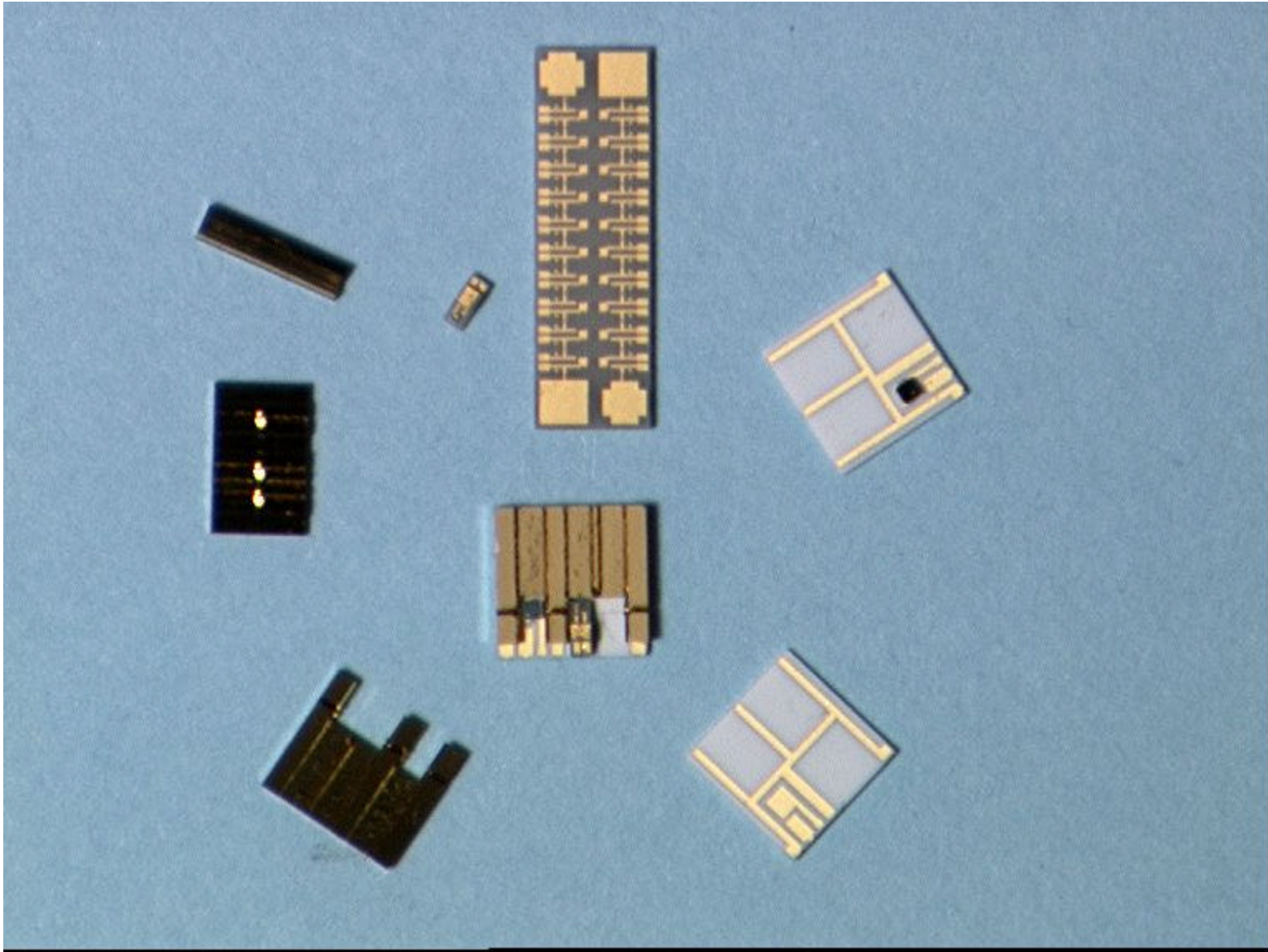


Marconi Packages

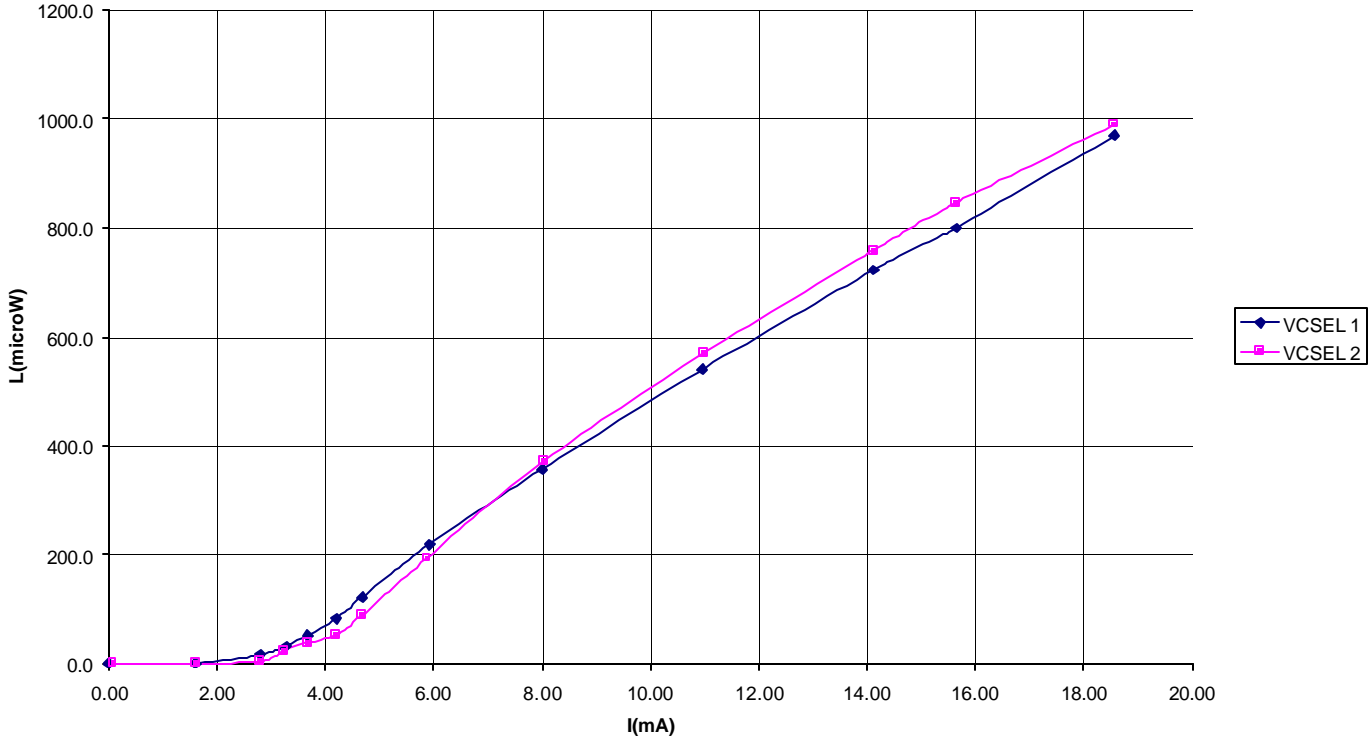


- **First phase 2 opto-packages produced. Final ATLAS style with 2 VCSELs and one PIN diode (==> Figs).**
- **3 packages produced (one with broken bond wire for PIN diode).**
- **LI curves for VCSELs and responsivity for PINs.**
- **BER measurements and cross-talk tests.**
- **Radiation tests.**
- **Timescales for next deliveries.**

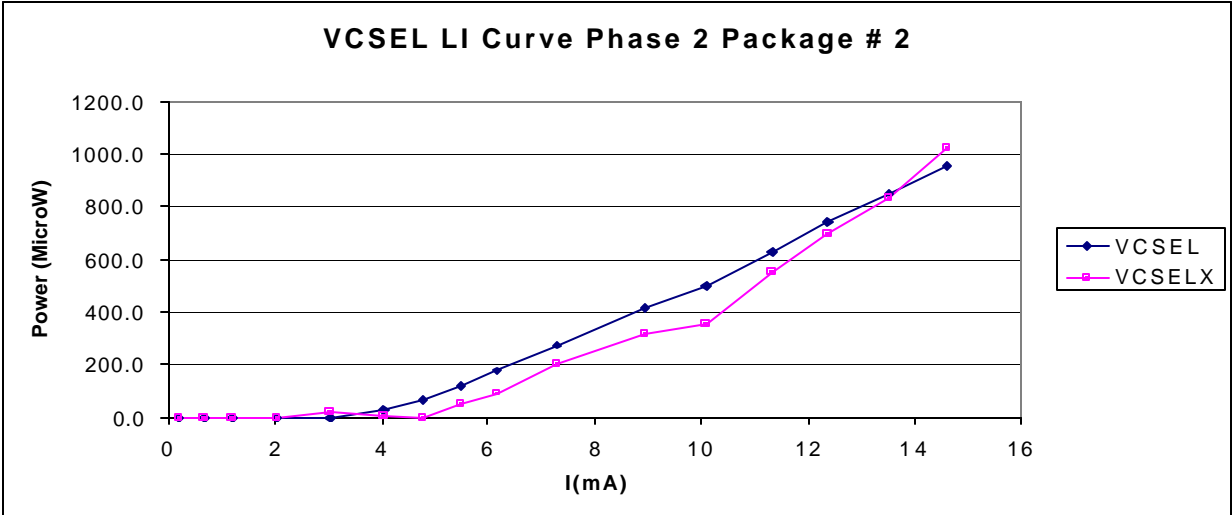
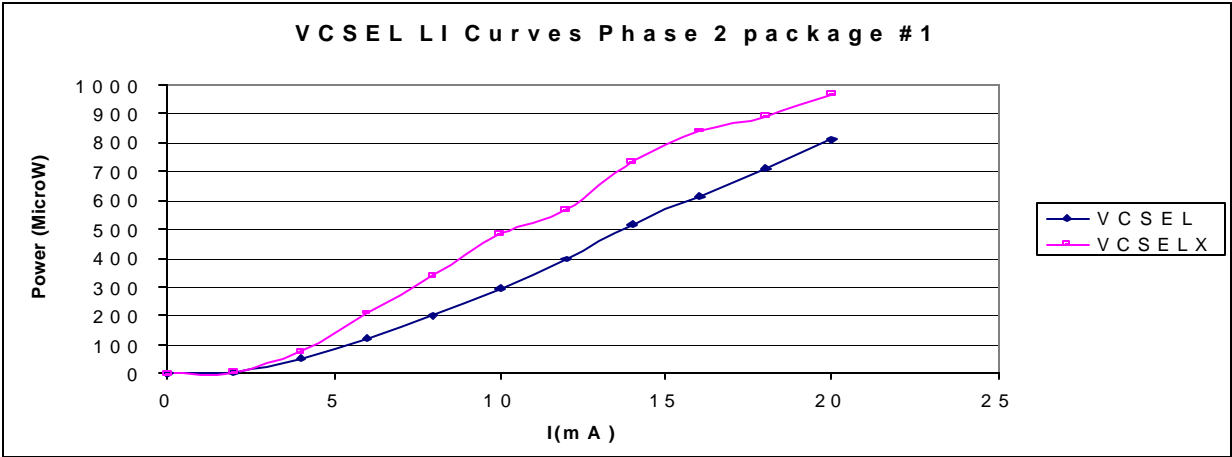


LI Curves VCSELs package #0

Marconi Phase 2 Package



LI Curves for VCSELs

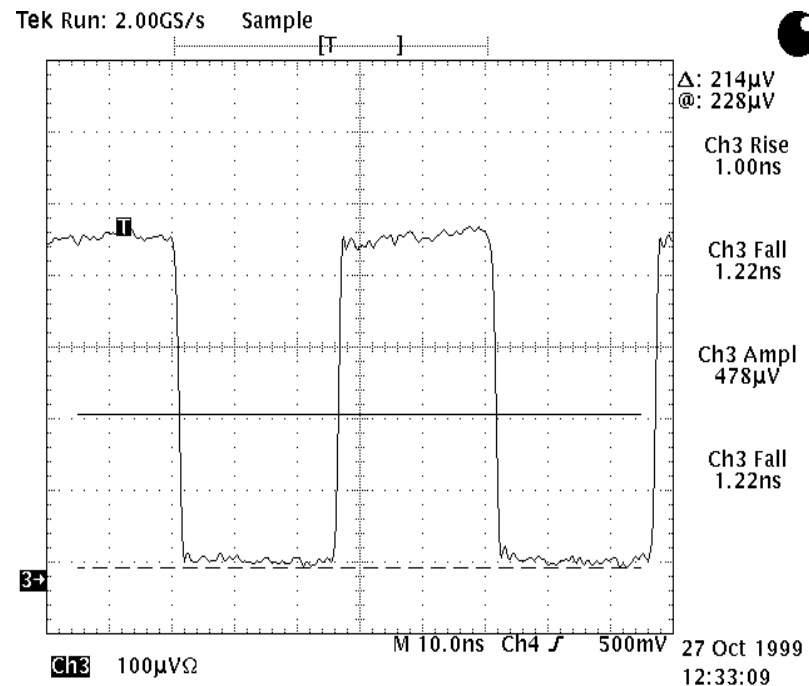


Rise/Fall Times and Responsivities

- Rise/fall times measured with optical probe.
- Rise/fall times ~ 1ns (limited by speed of probe/scope).
- Responsivity PINs

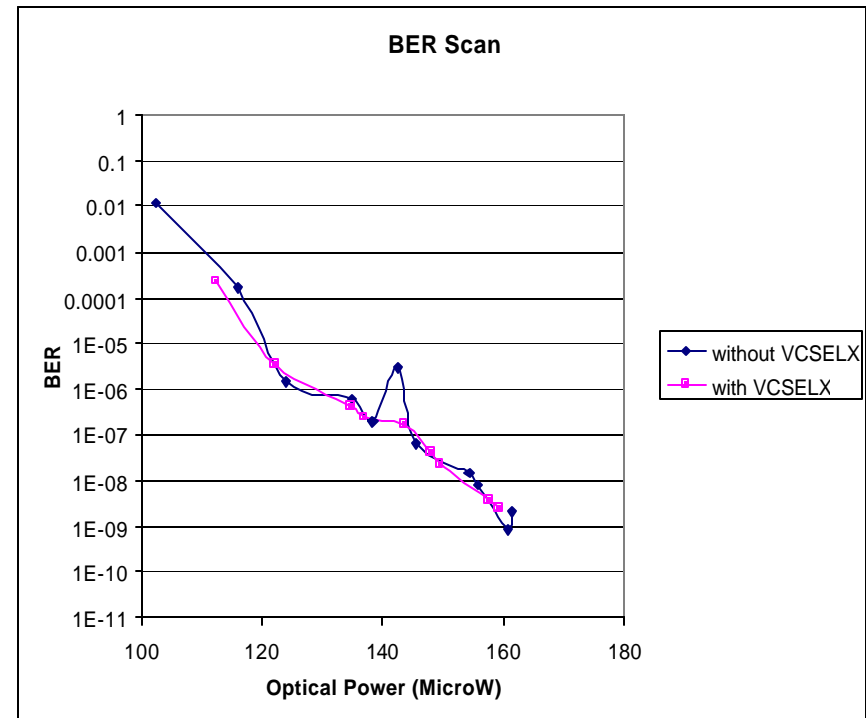
PIN1: $R=0.47$ A/W

PIN2: $R=0.45$ A/W



BER Scans

- Measure BER for TTC links as a function of optical power in TTC link.
- Repeat measurements while pulsing the other VCSEL at 20 mA to check for cross-talk.
- No measurable cross-talk.



Schedule

- Next packages waiting in queue for Centronic to mount PINs on tile.
- 10 packages end December/early January
- 50 packages end January.