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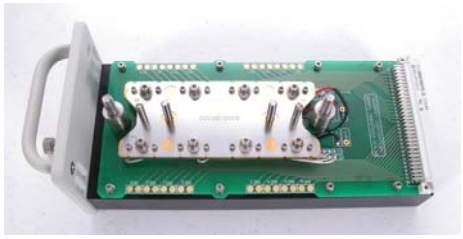
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ASC Technician's Report on the Newport Laser Diode Burn-In Rack System Drawer Shown Below



These drawers are designed to be used with Chip on Submount (COS) laser diode packages.



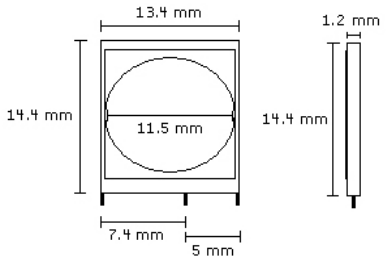
Bottom half of drawer.

Testing using a spectrum analyzer and various laser sources, we have determined that the 16 photodiodes detectors in each drawer are silicon (Si).



One row of 8 photodiode detectors.

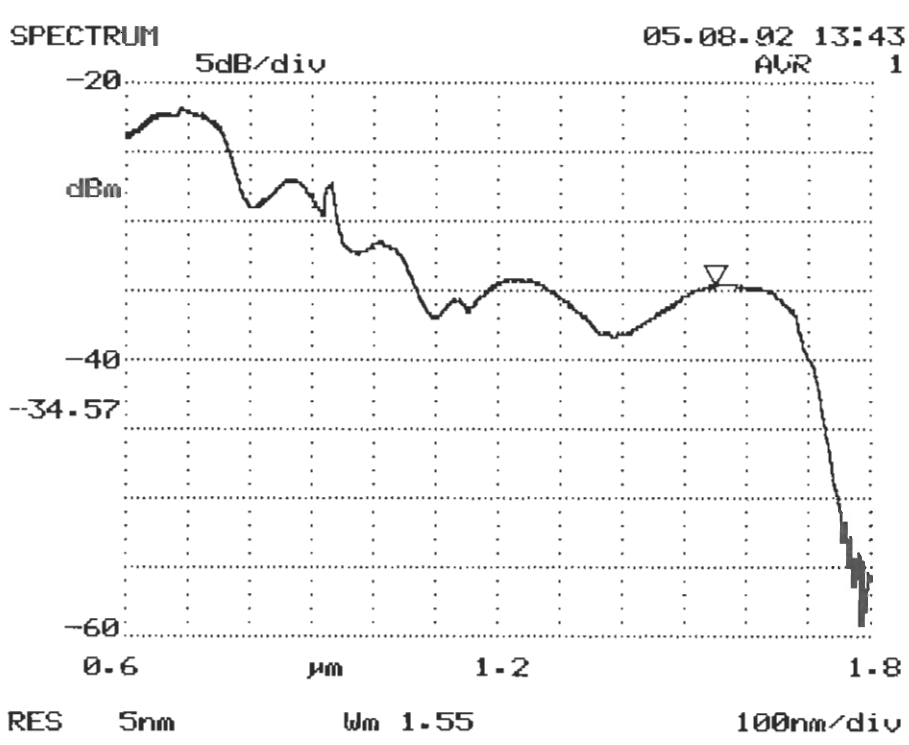
Here is a technical drawing of the photodiode. Any photodiode fitting this form factor would work. They are easily desolderable off of the board. There are three pins. The center pin has no connection (NC). All measurements are approximate, ± 0.5 mm.

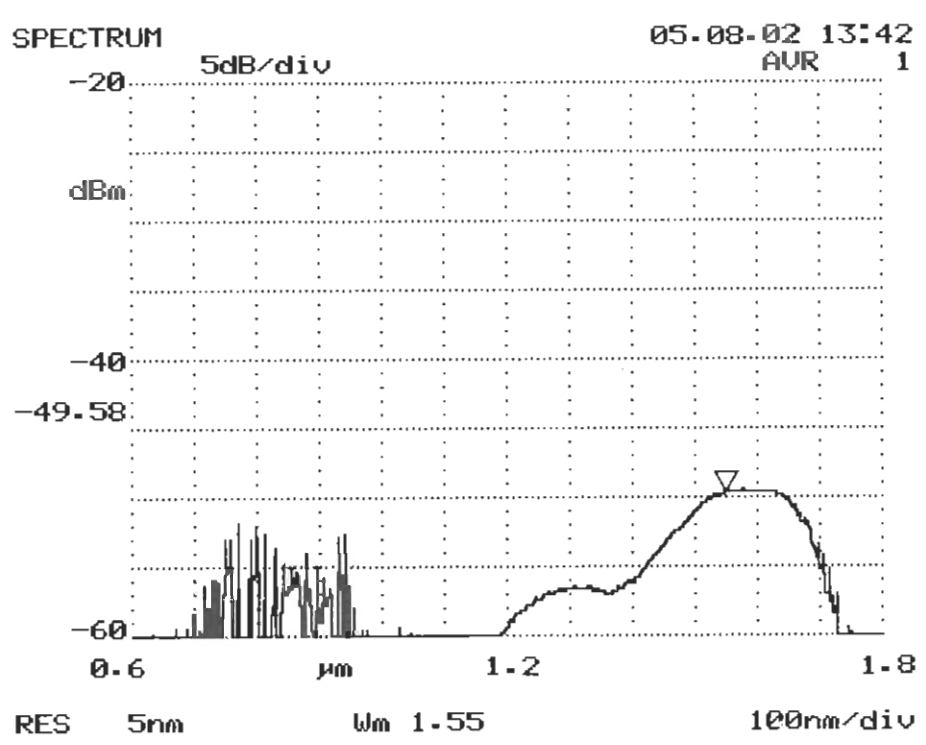


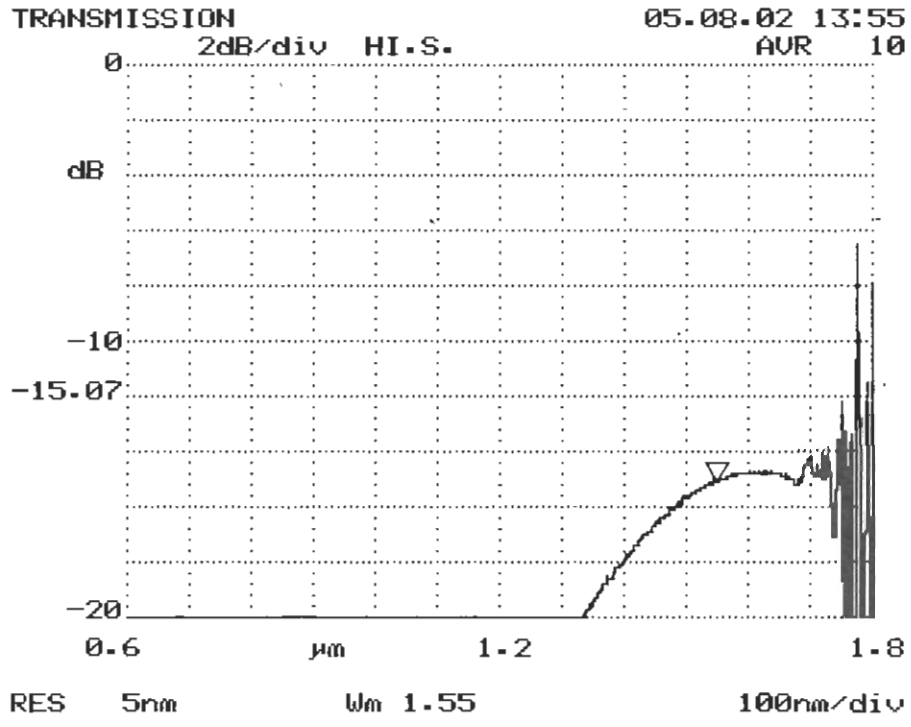
Considering the photodiode response, we suspect that the filters were being used as strong neutral density filters in an application around 980 nm. The diameter of each filter is about 13.3 mm and the thickness 2 mm. These filters are glued in and can be removed as shown in photo to the right. The next three pages are spectrums (measured using an Anritsu OSA) of a light source, the light source through the filter, and the pass band as calculated by the OSA.



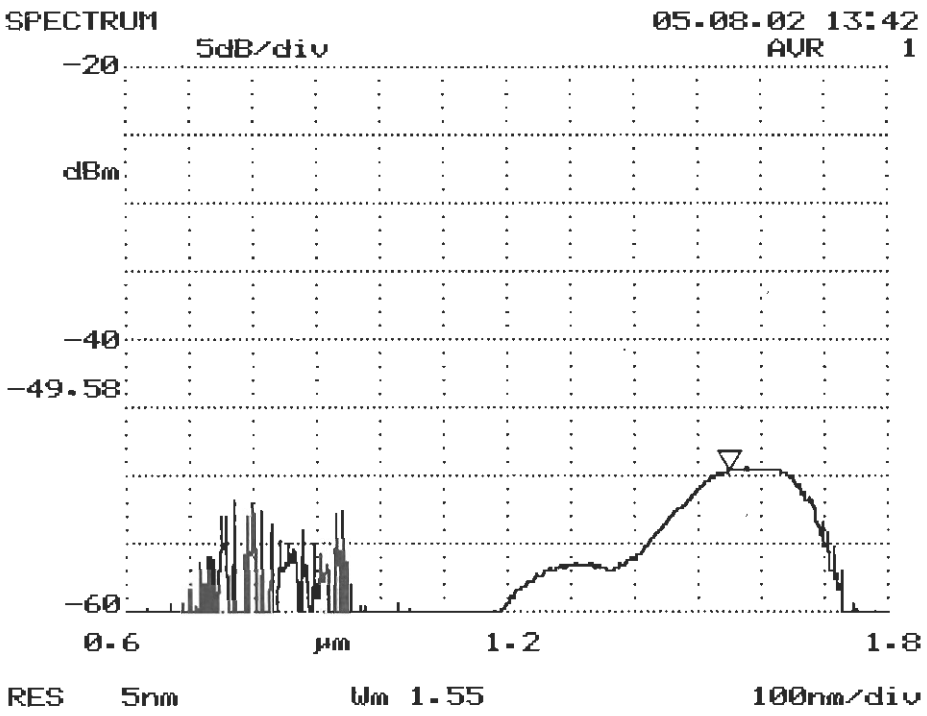
Top half of drawer with one row of photodiode detectors removed and one neutral density filter popped out.



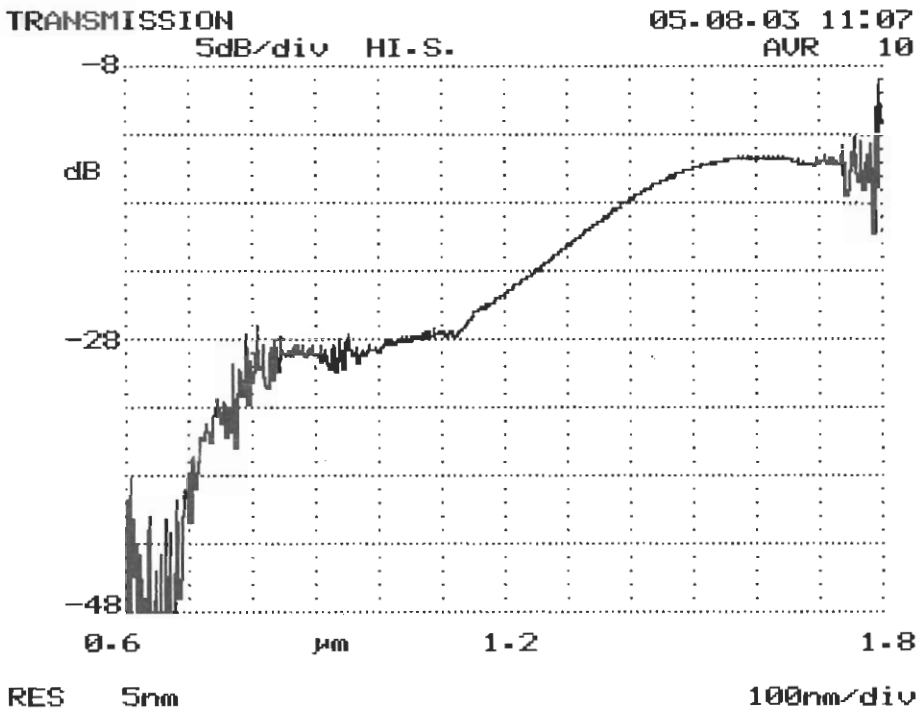




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