



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
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Technical Specification of Avalanche Photo Diode (APD)

1. Photon Detection Efficiency (PDE)-The APD should have a PDE of more than 60 % at 650 nm.
- 2 The APD should have a PDE of more than 60 % at 785 nm.
- 3.The APD should have a PDE of more than 30 % at 830 nm.
4. Minimum dead time- It should be less than 25 ns.
- 5.Dark count- less than 110 counts/sec.
- 6.Active area of minimum 170 μm .
- 7.After pulsing probability should be less than 1 %.
8. output pulse width: 10ns
9. Fiber coupling facility should be there.
10. Power Supply should be included.
11. Warranty -1year