

Powai, Mumbai 400076.

Technical Specifications for Single Avalanche Photo Diode (SPAD)

RFX NO. 6100000817 (Reference No. 1000019958)

Single Avalanche Photo Diode (SPAD)

Photon Detection Efficiency (PDE)- The SPAD array should have a PDE of more than 12 % at 650 nm.

The APD should have a PDE of more than 3 % at 785 nm.

- Adjustable dead time- It should be between 50-125 ns.
- Frame rate- It should be at least 95 Kframes/sec with 8 bit.
- Dark count- less than 110 counts/sec. For at least 85% of the pixels.
- \bullet Active area diameter of each SPAD- 30 $\mu m.$
- After pulsing probability should be less than or equal to 1 %.

• Interframe dead-time should be not more than 40 ns.

C-Mount capability.

Power Supply should be included. Warranty for atleast 3 years. software included Time-Gated FLIM mode: Gate Width: 5ns - 20ns Gate Steps: 10- 20ps Measurement Time range: 10-20ns. Laser Sync Out: equal or above 50MHz