

Annexure-1

Ku band PIN Photodiode

S. No	Parameter	Specification
1.	Operating Wavelength	1530-1570 nm or higher
2.	Maximum Achievable Data Rate	10 Gbps or higher
3.	Lower Cutoff Frequency	100 kHz or lesser
4.	Higher Cutoff Frequency	12 GHz or higher
5.	Minimum Optical Sensitivity at 10 Gb/s NRZ at B.E.R. of 10^{-9} .	-19.5 dBm or lesser
6.	Maximum Overall Load Optical Power	+1 dBm or higher
7.	Electrical Data Output Format	Differential Ended Output
8.	Electrical Output Data	300 mVpp. or higher
9.	Electrical Output Impedance	50 Ohms
10.	PIN Responsivity	0.8 A/W or higher
11.	PIN Supply voltage	Up to +5V DC
12.	Dark Current	50 nA (max.)
13.	TIA Power Supply voltage	Up to +5V DC
14.	TIA Power Supply current	100 mA (max.)
15.	Electrical Return (DC to 6GHz)	8 dB or lesser.
16.	Operational temperature	-10 to +65 degree C or wider
17.	Storage Temperature	-40 to +85 degree C or wider
18.	Optical Fiber Pigtail	SM fiber of 1 mtrs length with FC-APC or LC-UPC Connector
19.	Package Style	Hermetically sealed board mount type
20.	Package Type	Surface Mountable with Solderable Pins
21.	Maximum Surface Mountable Package Dimensions	25 mm x 15 mm x 5 mm
22.	Pin Configuration	As per attached in Annexure-1

Pin Configuration

