

PIN Receiver with Post LNA for Analog Transmission

S. No	Parameter	Specifications
1.	Operating Wavelength	1530 – 1570 nm or higher
2.	Lower 3 dB frequency	1 GHz or lesser
3.	Higher 3 dB frequency	18 GHz or higher
4.	Output Coupling	AC with Inbuilt Bias Tee with RF Low Noise Amplifier
5.	Minimum Responsivity (at 1550 nm)	0.8 A/W
6.	Saturation Input Optical Power	+3 dBm or higher
7.	Maximum Optical Power Handling Level	+7 dBm or higher
8.	Maximum Dark Current at 25 degree C	100 nA .
9.	RF Low Noise Amplifier Gain	≥ 12 dB
10.	Saturation RF output Power	+2 dBm or higher
11.	Photodiode Reverse Bias Voltage	+5V (typical)
12.	RF port Impedance	50 Ohm
13.	Output Return Loss	≤ -8 dB
14.	Optical Fiber Type	SMF-Fiber with FC-PC/APC with 1 mtrs length (typ.) of 900um jacket.
15.	RF Output Connector	2.92 mm Compatible SMA Female
16.	DC Connections	Solderable Leaded Pins
17.	Operational temperature	-20 degree C to +65 degree C or higher
18.	Operational Humidity	Up to 85 % or higher
19.	Storage Temperature	-40°C to 85°C or higher
20.	Package Style	Hermetically Sealed Package with Mountable Package
21.	Maximum Package Dimensions	40 x 40 x 25 mm
22.	Warranty	Vendor shall provide 1-year warranty against any manufacturing defects.
23.	Vendor should provide the details as per attached R&QA in Annexure1	As per Annexure 1

Important Terms and Conditions:

1. Vendor should be OEM or should be authorised by the OEM. If the vendor is not an OEM, valid OEM authorization certificate to be provided.
2. Bidder to offer point-by-point compliance / non-compliance with the offered values against all parameters.
3. The quoted values should be verifiable from the manufacturer datasheets and application notes. Bids with plain compliances without adequate supporting documents and references shall be treated as non-compliant.
4. Vendor shall provide sufficient technical details in the form of datasheet, white papers, application note etc. against the quoted part numbers.
5. SAC reserves the right to reject the Vendor in case of lack of technical information.
6. Vendor should provide the items within 9 months from date of PO.