

1103 APD (Avalanche Photo Diode)



Avalanche Photodiode, 10 Gb/s with TIA

The APD-10 is a high sensitivity APD-TIA receiver in a fiber pigtail coupled package. It includes a high speed InGaAs avalanche photodiode with a high gain TIA in a hermetically sealed coaxial package. It incorporates an LC/UPC pigtail and a flexible printed circuit (FPC). The signal GND and a receptacle are electrically isolated in this APD receiver.

FEATURES

- 10 Gb/s min. Gain Bandwidth
- TIA Amplifier
- High Sensitivity: -26 dBm typ.
- Low Power Consumption: 0.1 W typ.

USE IN

- 10 GBASE-L Ethernet
- SONET[®]C-192
- SDH STM-64
- 10 G Fibre Channel
- Fiber Sensors

Photodiode Wavelength Range	1300 nm to 1610 nm
Operational Bandwidth	10 GHz
Conversion Gain	Over 2000 V/W
Gain Ripple	±1.5 dB
Responsivity	1020 v/w @ 1310 nm typ.; 1080 v/w @ 1550 nm typ.; 960 v/w @ 1610 nm typ.
Min. Optical Input	- 26 dBm
S21 3 dB Bandwidth	10 GHz typ.
S22 Characteristics	12 dB from 130 MHz to 6 GHz; 7 dB from 130 MHz to 8 GHz
Optical Return Loss	27 dB min.
Output Coupling	AC Coupled
Max. Overload	-5 dBm typ.
Operating Temperature	-5°C to +75°C
Storage Temperature	-40°C to +85°C
Optical Connector	LC/UPC

