

1203 APD (Avalanche Photo Diode)

APR-1550-BT



Avalanche Photo Diode (APD)-Transimpedance Amplifier (TIA)

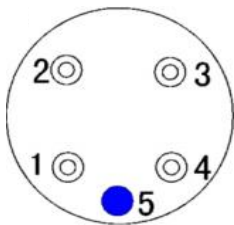
FEATURES

- Data Rate up to 155 mbps
- 3.3 V Operating Voltage
- High Sensitive & High Reliability
- TO46 4-pin/5-pin Coaxial Package

USE IN

- SDH/SONET Transceivers Up to 155 Mbps
- Optical Monitoring Channel
- Other 155 Mbps Data Transmission System
- Receiver for Instrument

FUNCTIONAL DIAGRAM



Pin#	Desc
1	VPD
2	OUT+
3	OUT-
4	VCC
5	GND

Operating Wavelength	1260 nm to 1620 nm
Responsibility	0.85 A/W max. @1310 nm; 0.90 A/W max. @1550 nm
Sensitivity	-38 dBm typ.
TIA Supply Voltage	3.1 V min.; .3.3 V typ.; 3.5 V max.
TIA Supply Current	25 mA typ.; 45 mA max.
APD Breakdown Voltage	25 V min.; .44 V typ.; 55 V max.
APD Operating Voltage	3 V typ.
APD Dark Current	30 nA typ.; 100 nA max.
APD Reverse Current	2 mA max.
TIA Supply Voltage	-0.4 V min.; 4 V max.
Fiber Input Power	+0 dBm max.
Differential Output Voltage	200 mV max.
Return Loss	27 dB min.
Operating Case Temperature	-40°C to +85°C

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.

2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.