

1203 APD (Avalanche Photo Diode)





APD Receiver with Pre-amp, 10 Gb/s, -28 dBm Sensitivity

The FRM5N141GT incorporates a high bandwidth InGaAs APD photo diode, a GaAs amplifier in a hermetically sealed board mount type package. The APD is processed with modern epitaxial techniques resulting in a reliable performance over a wide range of operating conditions.

FFATURES

- Board Mount Type "GT" Package: 17 Pins
- InGaAs-APD with Pre-amplifier
- Integrated Design Optimizes Performance at Bit Rates Up to 10.7 Gb/s
- Electrical Differential Output
- High Sensitivity: -26.5 dBm
- Operates in Both C and L Wavelength Bands

USE IN

- Optical Receiver at 1310 nm or 1530 nm to 1610 nm in SONET, SDH, DWDM
- Other Optical Fiber Systems Operating Up to 10.7 Gb/s

Photodiode Type	APD+Pre-amp		
Spectral Response Range	1270 nm to 1620 nm		
Responsivity	0.9 A/W		
Frequency Response	7.5 GHz		
Overload	0 dBm typ.; After VOA		
Sensitivity	-5 dBm		
APD Breakdown Voltage	25 V typ.		
Optical Return Loss	27 dB min.		

FUNCTIONAL DIAGRAM

Pin#	Symbol	Desc	Pin#	Symbol	Desc
1	GND	Case Ground	10	OUT	Output (+)
2	VPD	Photodiode bias	11	GND	Case Ground
3	NC(NIC)	No Internal Connection	12	GND	Case Ground
4	VPreamp	VEE (-5.2 V)	13	OFFSET	DC Offset Control
5	NC(NIC)	Ground	14	NC(NIC)	No Internal Connection
6	GND	Case Ground	15	NC(NIC)	No Internal Connection
7	GND	Case Ground	16	Rth	Thermistor for APD
8	OUT	Output (-)		NC(NIC)	No Internal Connection
9	GND	Case Ground	17	GND	Case Ground

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.

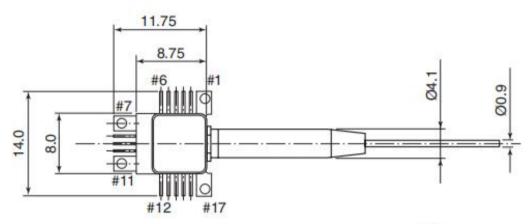


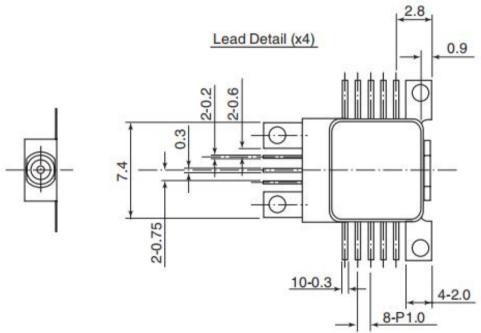
1203 APD (Avalanche Photo Diode)

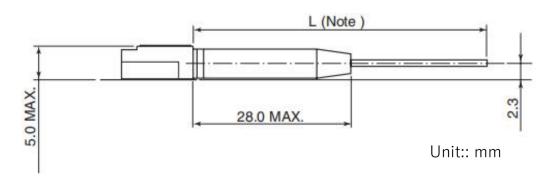




MECHANICAL DRAWING







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.