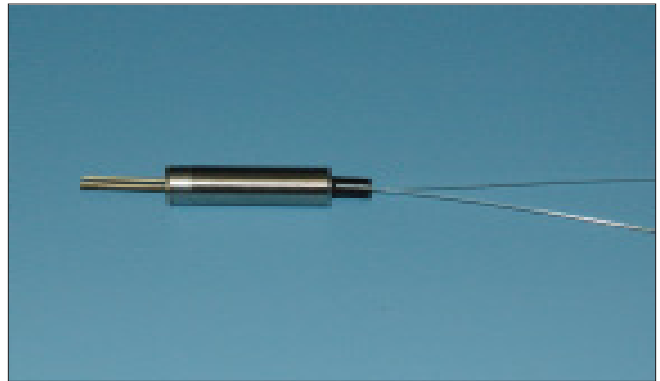


1310/1550 WDM Integrated Detector

Applications:

PON System Upgrade (Add Video Signal)
DBS Overlay Capability



Features:

FTTP Wavelength Range

Low Insertion Loss

High Isolation

Wide Wavelength Range

Outside Plant Environments

Epoxy-Free Optical Path

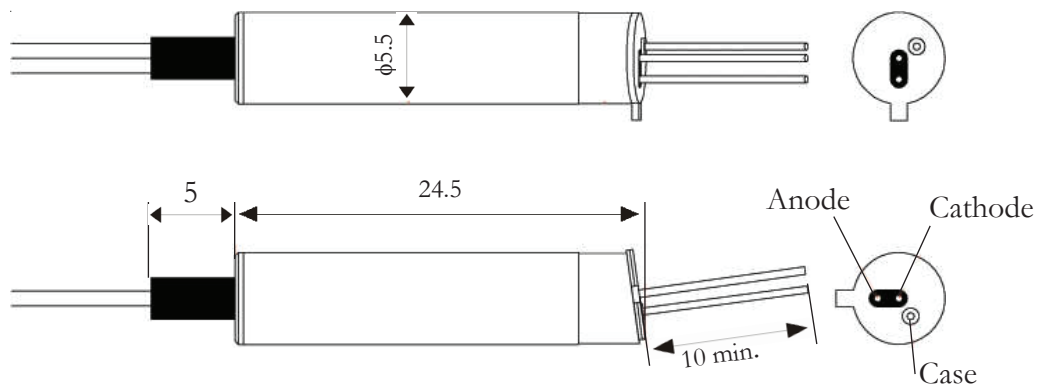
Low Dark Current

Telcordia GR-468 Compliant

Description:

Go!Foton's 1310/1550 WDM Integrated Detector is a hybrid device designed for the FTTP market. It uses a PIN Photodiode and offers low dark current and wide bandwidth performance. The WDM Integrated Detector is well suited for outdoor applications and can be offered with DBS overlay capability.

Dimensions:



Specifications:

Optical Characteristics

Parameter	Ports	Value
Input Operating Wavelength Range $\lambda_{T,R}$	P1 (COM)	1260 ~ 1360 (nm)
		1480 ~ 1500 (nm)
		1545 ~ 1565 (nm)
Transmission Wavelength Range λ_T	P1 → PD	1545 ~ 1565 (nm)
Reflection Wavelength Range λ_R	P1 → P2	1260 ~ 1360 (nm)
		1480 ~ 1500 (nm)
Insertion Loss @ λ_R	P1 → P2	<0.6 (dB)
Wavelength Dependent Loss @ λ_R	P1 → P2	<0.3 (dB)
Polarization Dependent Loss @ λ_R	P1 → P2	<0.2 (dB)
Isolation @ λ_T	P1 → P2	>12.0 (dB)
Isolation @ 1260 ~ 1360nm @ 1480 ~ 1500nm	P1 → PD	>45.0 (dB)
		>40.0 (dB)
Return Loss	P1 & P2	>50.0 (dB)
Optical Power Handling	P1 or P2	<500 (mW)

Electrical Characteristics

PD Bias Voltage (V_R)	5.0	
PD Responsivity @ I_P and $V_R = 5V$	>0.75 A/W	
PD Linearity @ I_P and $V_R = 5V$	+/- 10%	
PD Dark Current @ $V_R = 5V$	<2 nA	
PD Cut-Off Frequency @ $V_R = 5V$, $R_L = 50\Omega$, and -3dB	>1 GHz	
Capacitance @ $V_R = 5V$ and $f = 1MHz$	<1.0 pF	
Absolute Maximum Ratings:	Forward Current	50 mA
	Reverse Current	3 mA
	Reverse Voltage	15 V

Operating Condition

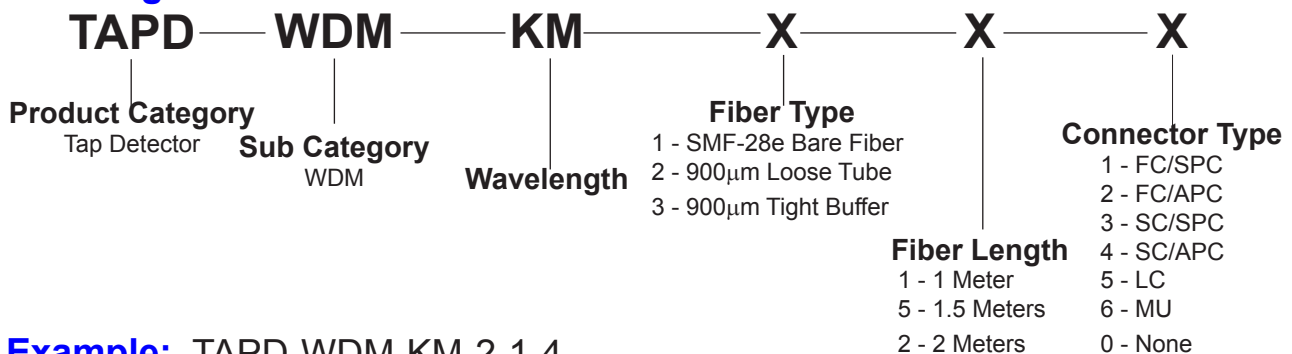
Operating Temperature Range	0.0 to +70.0°C
Storage Temperature Range	-40.0 to +85.0°C

Packaging

Fiber Type	SMF-28e or Equivalent
Fiber Length	>1m
Dimension (mm)	$\phi 5.5 \times 29.5$

All specifications are measured without fiber connectors.

Ordering Information:



Example: TAPD-WDM-KM-2-1-4

WDM Tap Detector, 1310/1550 nm wavelength, with 900 μ m Loose Tube, 1 Meter Long with an SC/APC Connector

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