

**Integrated Tap Detector (FTAPD)****Description:**

Fiberdyne Labs Integrated Tap Detector (FTAPD) series combines an optical coupler, based on NSG's filter-on-lens technology, with proprietary PIN photodiode to create a single channel optical power monitor. The integrated design reduces the number of parts, minimizes fiber handling and results in a compact footprint, which simplifies assembly of amplifier and WDM monitoring devices. The hermetically sealed InGaAs photo detector has low dark current and a flat and rapid power response across a wide wavelength range.

**Applications:**

- EDFA Power Monitoring/Control
- DWDM Channel Monitoring
- ROADM Monitoring / Control

**Features:**

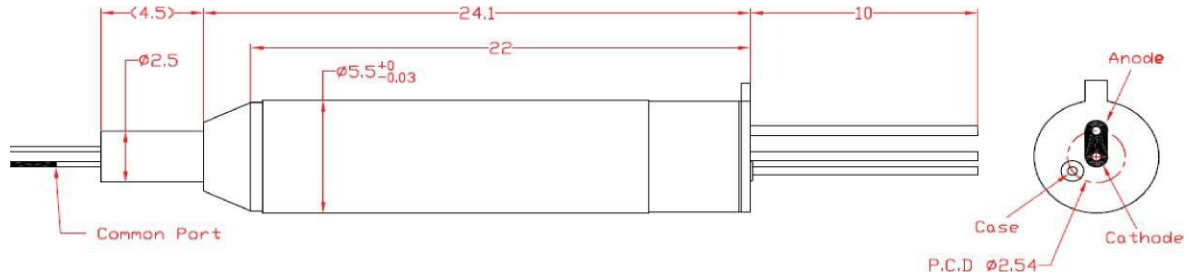
- Low Insertion Loss
- Low Wavelength Dependent Loss
- Excellent Thermal Stability
- Broad Wavelength Range
- Low Dark Current
- Telcordia GR-468-CORE Compliant



**Specifications:**

Tap Ratio	Unit	0.5%	1%	2%	3%	5%	10%	
Wavelength Range	nm	1520 ~ 1570						
Insertion Loss	dB	<0.5	<0.5	<0.5	<0.5	<0.6	<0.8	
Wavelength Flatness	dB	<0.1						
Temperature Dependent Loss	dB	<0.15						
Polarization Dependent Loss	dB	<0.05						
Optical Return Loss	dB	>50						
PD Bias Voltage, VR	V	5						
Maximum Optical Power Handling	dBm	26	23	20	18	16	13	
Responsivity	max	mA/W	8.5	15	26	40	64	145
	min	mA/W	4	8	16	26	40	70
Wavelength Dependent Responsivity	dB	< 0.3						
Temperature Dependent Responsivity	dB	<0.2						
Polarization Dependent Responsivity	dB	<0.1						
Operating Temperature	°C	0 ~ +75						
Storage Temperature	°C	-40 ~ +85						
Dark Current	nA	<0.5 (@RT), < 5(Top)						
PD Cut-Off Frequency, RL=50W, -3dB	MHz	300 (Typical)						
Linearity	%	+/- 10						
Fiber Type	-	SMF-28e or equivalent						
Fiber Length	m	> 1						
Package Size	mm	5.5 x 24.5						
Soldering Temperature	°C	250 (<10 sec)						

**Dimensions:**



**Ordering information:**

FTAPD	-	AAA	-	B	-	C	-	DD	-	E
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FTAPD	-	Position AAA	-	Position B	-	Position CCC	-	Position DD	-	Position E
		Ratio		Wavelength		Fiber Type		Fiber Length		Connector Type
		0.5 = 0.5%		C = C Band		250 = 250um Bare Fiber		05 = 0.5		0 = None
		001 = 1%				900 = 900um Loose Tube		1 = 1m		1 = ST/UPC
		002 = 2%						1.5 = 1.5m		6 = SC/UPC
		003 = 3%						YY = Others		7 = FC/UPC
		005 = 5%								A = FC/APC
		010 = 10%								B = SC/APC
										L = LC/UPC
										N = LC/APC
										Y = Custom