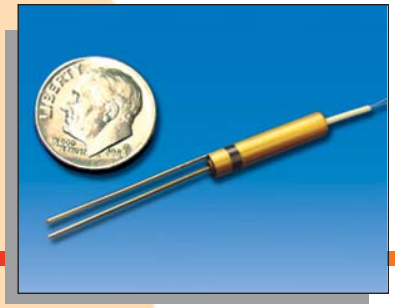


1310 / 1550nm WDM Filter Integrated Optical Power Monitor

Features/Benefits

- Compact coaxial package
- Low insertion loss
- High isolation between detected signal and reflected signal
- Low polarization dependent loss
- Low wavelength dependent loss
- Excellent responsivity linearity
- High frequency response capability
- Eliminates fiber splicing
- Minimizes part number
- Improves fiber routing
- Saves board space

Applications

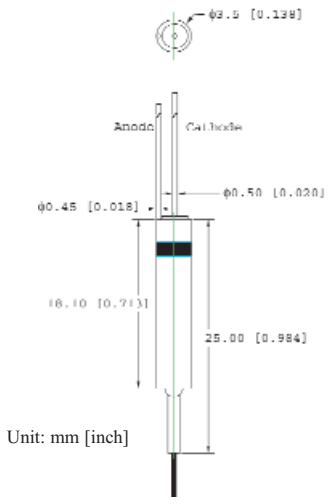
- Dual window WDM systems

General Specifications

Parameters		Unit	Min.	Typ.	Max.
Reflect Port	Operating Wavelength Range	nm	1540±30 or 1310±50		
	Insertion Loss	dB	-	-	0.6
	Polarization Dependent Loss	dB	-	0.05	0.1
	Isolation	dB	15	-	-
	Polarization Mode Dispersion	ps	-	-	0.1
	Optical Return Loss	dB	45	-	-
Detect Port	Operating Wavelength Range	nm	1540±30 or 1310±50		
	Isolation	dB	40	-	-
	Responsivity**	A/W	0.7 @ 1550-band 0.55 @ 1310-band	-	-
	Input Optical Power	dBm	-	-	15
	Polarization Dependent Responsivity	dB	-	-	0.2
	Operating Bias Voltage	V	-	- 5.0	-
	Linearity	%	-	-	± 5
	Dark Current @ 23°C, - 5V	nA	-	0.5	1.0
	High Frequency Response Limit	GHz	0.6	-	-

** The ratio of photodiode current to device input optical power.
Note: insertion loss and return loss values are without connectors.

Dimensions



Unit: mm [inch]

Absolute Maximum Ratings

Parameters	Unit	Min.	Max.
Reverse Voltage	V	-	20
Forward Current	mA	-	10
Operating Temperature	°C	- 5	70
Storage Temperature	°C	- 40	85
Operating Humidity	%RH	-	95

Ordering Information

P I B F ☐ ☐ ☐ ☐ R ☐ ☐ ☐ ☐ ☐ ☐

Wavelength (detect band)
1550= 1550nm
1310= 1310nm

Wavelength (reflection band)
1550= 1550nm
1310= 1310nm

Fiber Type
0= 250μm
1= 900μm

Connector
0= None
1= FC/UPC
2= FC/APC
3= SC/UPC
4= SC/APC
5= LC/UPC
6= MU/UPC

This product information is subject to change without notice.