



OZ Optics

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FIBER TO PHOTODIODE COUPLERS WITH REMOVABLE FILTERS

PRELIMINARY

Features:

- High coupling efficiency
- Removable Filter Holder Designs
- Various Filters can be used
- Available in single mode, polarization maintaining and multimode versions
- Rugged and Compact Size
- InGaAs or Si photodiodes standard
- Small active area photodiodes for high bandwidth available

Applications:

- Biology and Biophotonics research
- Fluorescence Imaging
- Colorimetry test and measurement
- Optical Spectral testing
- Quality control and measurement

Product Description:

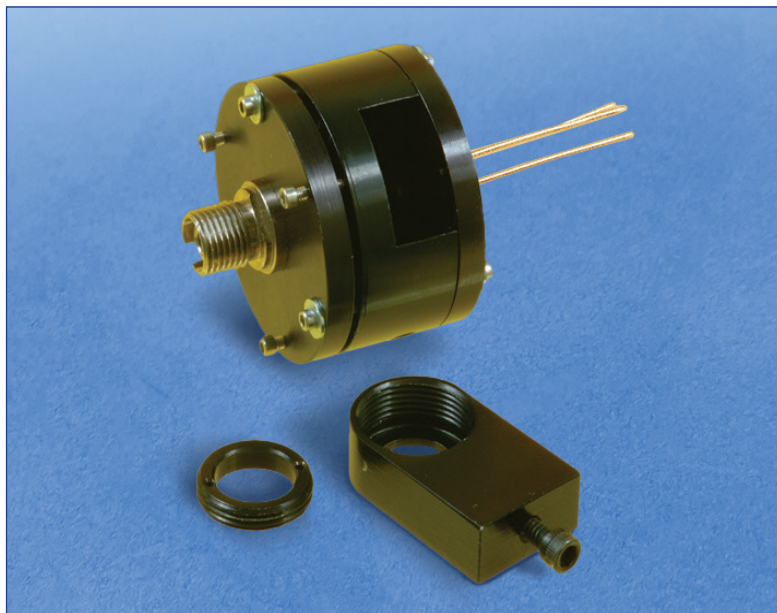
OZ Optics is combining our U-brackets, fixed and removable filters and fiber to photodiode designs to offer low cost fiber to photodiode couplers with removable filters. The device can be configured with virtually any photodiode package supplied in a standard TO can and can be pigtailed with either singlemode, polarization maintaining or multimode fibers.

OZ Optics' fiber to photodiode couplers with removable filters use OZ Optics' patented tilt adjustment technique, utilizing a pair of lenses to first collimate the light from the input fiber and then focus the transmitted light onto the active area of the detector. In the free space air gap path the filter's mechanical block is designed to accept a removable filter holder, allowing customers to install their desired filter: Bandpass, Longpass, Shortpass, Notch filters or other bulk optical elements such as polarizers, dichroic mirrors, Neutral-density (ND) etc.

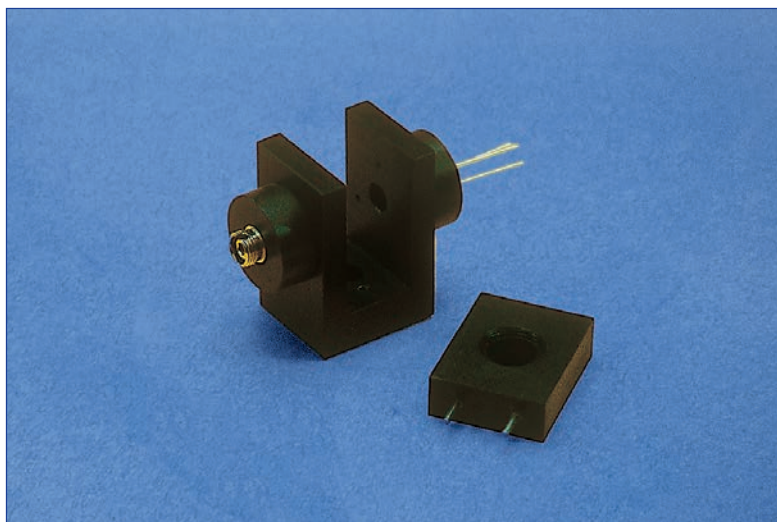
Fiber to photodiode couplers with removable filters are available in different sizes and with different air gap spacing's to meet customer's product requirements.

For OEM applications, miniature pigtailed style fiber to photodiode couplers with built-in fixed filters can be designed and offered on demand.

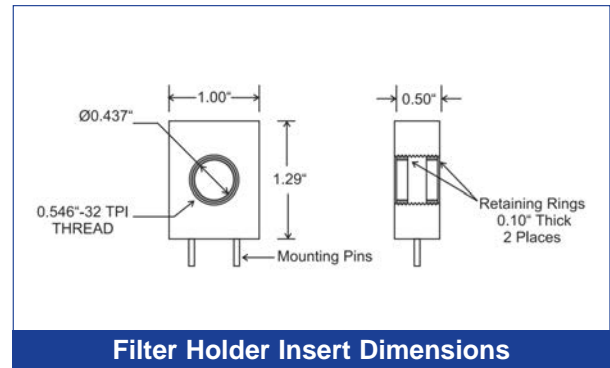
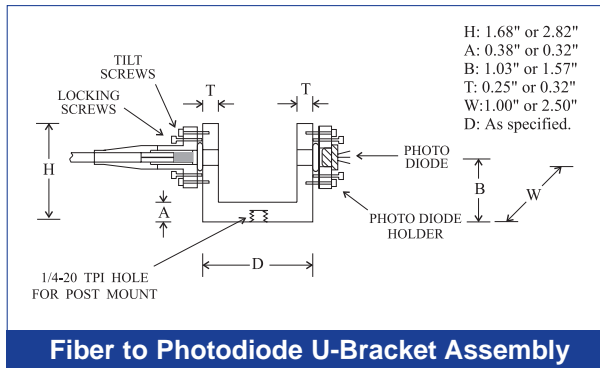
We welcome opportunities to provide a custom tailored solution using customer's specific photodiode, filters and fibers, please contact us at sales@ozoptics.com with your detailed product requirement and we will determine the best and most cost effective solution.



Fiber to Photodiode Couplers with removable Filters



Fiber to Photodiode Couplers with removable Filters in U-Bracket Assembly



Ordering Information:

Receptacle fiber to photodiode coupler with removable filter

FPRF-A-X-W-F-LW

A = 0 = Lens style fiber to photodiode coupler with a receptacle and tilt adjustment design.
 1 = Lens style fiber to photodiode coupler with a receptacle, without tilt adjustment.

X = is the connector receptacle type. For pigtail style photodiode couplers it refers to the male connector on the end of the fiber. (3 for NTT-FC compatible, 3S for Super FC, 3A for Angled PC, 5 for SMA 905, 8 for AT&T-ST, SC for SC connectors, X for unterminated fiber ends).

LW = Filter line width in nanometers. For flat top filters add "F" to the line width
 NF = No filter included

F = is the type of fiber being use (S for singlemode, M for multimode, P for polarization maintaining fiber).

W = is the operating wavelength of the photodiode, in nm.

Pigtailed fiber to photodiode coupler with removable filter

PFPRF-A1-W-a/b-F-LB-X-JD-LW

A = 1 = Lens style fiber to photodiode coupler with a receptacle and tilt adjustment design.
 2 = Lens style fiber to photodiode coupler with a receptacle, without tilt adjustment.

W = is the operating wavelength of the photodiode, in nm.

a/b = are the fiber core and cladding diameters respectively, in microns.

F = is the type of fiber being use (S for singlemode, M for multimode, P for polarization maintaining fiber).

LW = Filter line width in nanometers. For flat top filters add "F" to the line width
 NF = No filter included

JD = is the fiber jacket type (0.25 or 0.4 for unjacketed fiber, 1 for 900 micron OD nylon jacketing or loose tubing, 3 for 3mm OD loose tube PVC cable).

X = is the connector receptacle type. For pigtail style photodiode couplers it refers to the male connector on the end of the fiber. (3 for NTT-FC compatible, 3S for Super FC, 3A for Angled PC, 5 for SMA 905, 8 for AT&T-ST, SC for SC connectors, X for unterminated fiber ends).

LB = is the desired backreflection level for pigtail style fiber to photodiode couplers. (25, 40 or 60dB typically).

When ordering, please email us your photodiode and fiber specifications. Add "PD" to the end of the part number if the photodiode is to be provided with the coupler by OZ Optics. Add "PO" to the end of the part number for Parts Only - if the customer is to do the alignment him/herself.