

DETECTOR FIBER OPTICS INTERFACE MODULES
MODEL: DFO- SERIES



APPLICATIONS

- **FIBER OPTICS INTERFACE**
- **FIBER OPTICS INSTRUMENT INTERFACES**
- **FIBER OPTIC POWER MONITORS**

FEATURES

- **UNIFORM COMMON MODULES**
- **RUGGED, EASY INSTALLATION**
- **HIGH POWER OPERATION**
- **WIDE SPECTRAL RESPONSE**
- **HIGH COUPLING EFFICIENCY**
- **PRECISION ADJUSTMENT**
- **POLARIZATION MAINTAINING CAPABILITIES**

ADVANCED PHOTONICS INTERNATIONAL, INC. offers an entire family of fiber-optical connectors suitable for many applications over the entire electromagnetic spectrum from .2 to 20 microns. These connectors are designed for the most challenging research and measurement applications.

The connectors allow the interfacing to equipment or for the designing of entire prototype and experimental assemblies. The family includes interchangeable optical modules for collimating, focusing, modulating, polarizing, combining, splitting or attenuation of optical energy in a fiber network. Special modules can be supplied to allow for special applications in collimated or focused beams. They can operate with constraints and connector types. The modules can be used for single or bundled fibers.

The Detector Fiber Optic Interface Modules are designed to operate with all other modules. All modules integrate features to insure optimum performance.

- orthogonal adjustments for alignment
- non elastic adjustment
- fine polarization adjustment
- interchangeable optical modules

The Detector Fiber Optic Interface Modules permit the measurement of throughput and energy from a source in a fiber optic network. The module allows for the selection of appropriate detector and frequency response to match your applications.

ADVANCED PHOTONICS INTERNATIONAL, INC.

The ADVANCED PHOTONICS INTERNATIONAL, INC. standard Detector Fiber Optic Interface Modules are supplied to meet your specific needs. See Functional Module Chart. The modules allows the focusing and positioning of energy fiber optic on the smallest detector. The Modules will allow the experimenters to perform standard and specialized measurements.

The connectors can be supplied to interface with your connector types.

CONNECTORS	
PART NUMBER	TYPE
C1	SMA 905
C2	NTT-FC
C3	ATT-ST
C4	SINGLE FIBER
C5	BARE FIBER
C6	OTHER
C7	SPECIAL

The Detector Fiber Optic Interface Modules can be supplied to operate at normal laser power levels or as part of high power delivery systems. Please specify whether you require the high power (HP) or regular power series (R). For high power see Fiber Optic attenuator module

The family of fiber optics modules are supplied with detectors tuned to a specific spectral region or wavelengths to match specific lasers or sources..

WAVELENGTH		
PART NUMBER	WAVELENGTH (NM)	DETECTORS
W1	400-700	Silicon
W2	400-1550	Silicon/Germanium
W3	1100- 2700	Lead Sulfide
W4	800-1800	InGaAs
W5	1300-1550	Germanium/ InGaAs
W6	660+/- 30	Silicon
W7	810+/- 40	Silicon
W8	OTHER BANDS	TBD

The modules can be supplied to meet a specific electrical frequency . Please specify required bandwidth when ordering.

The Detector Fiber Optic Interface Modules offers assemblies to meet either multiple (M1) or single fiber applications (F1). For single fibers the connectors incorporate additional adjustments to insure alignment. Please specify when ordering:

FUNCTIONAL MODULES	
PART NUMBER	FUNCTIONS
DFO1	Fiber Optic Input with chosen detector module. Specify power and frequency requirements
DF02	Fiber Optic Input with filter slide with chosen detector module. Specify Power and frequency requirements
DFO3	2 Fiber optic inputs allows to feed a number of fiber inputs : specify the number
DFO4	Dual monitor allows for measurement of power and an output to spectrometer
DFOS	If you require the assemblies to accomplish special functions add -S to the part number

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