ADVANCED PHOTONICS INTERNATIONAL, INC.
54 PLYMOUTH ROAD, WHITE PLAINS, NY 10603

INLINE INTERFACE FIBER OPTICS MODULES
MODEL - I2 SERIES

APPLICATIONS

- **VARIABLE ATTENUATORS**
- **BEAM MODULATORS/ SHUTTERS**
- **POLARIZERS**
- **FREE SPACE EXPERIMENTS**

FEATURES

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

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. The family of connectors is 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 applications in collimated or focused beams. They can operate with different constraints and connector types. The modules can be used for single or bundled fibers.

The Inline Interface Fiber Optics Modules are designed to operate with all other modules including our collimators and interface modules The modules integrate features to insure optimum performance:

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

The Inline Modules permit the integration of many different functions designed to a common module.The module also allows the use of many other manufactures assemblies.

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The ADVANCED PHOTONICS INTERNATIONAL, INC. standard inline Modules are supplied to meet your specific needs. The inline modules are supplied with different functional capabilities, see the FUNCTIONAL MODULE CHART for details.

In addition, our engineering staff can design modules to meet your specific requirements.

The connectors can be supplied to interface with your existing 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 family of fiber optics connectors can be supplied tuned to a spectral region or specific wavelengths to match specific lasers

WAVELENGTH	
PART NUMBER	**WAVELENGTH (nm)**
W1	400-700
W2	400-1550
W3	375-1600
W4	400-1600
W5	1300-1550
W6	660+/- 30
W7	810+/- 40
W8	OTHER LASERS
W9	SINGLE FIBER CABLE

The Inline Blocks 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).

The Inline Blocks 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**
A1	Manual Attenuators, a set of 3; the values of attenuation is 50%, 10%, 1%.
A2	An automated attenuator wheel which typically varies the throughput from 100 % to 1%
M1	A tuning fork modulator can be introduced into the beam which operates at a fixed frequency.
M2	A Solid State Modulator can be supplied to modulate the energy up to 50 mhz
S1	Mechanical Shutters operating at a speed of 50 ms.
S2	Solid State Shutters operating at 10 u sec
P1	A Polarizer
F1	Free Space 25 mm length with a collimated beam;
F2	Free spaced 37 mm length with a focused beam 18.5 mm from each end
F3	Free Space focused with a collimated or focused beam; with user s specified size free space
S	If you require the assemblies to accomplish special functions add -S to the part number

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