

LASER FIBER OPTICS INTERFACE MODULES
MODEL -L1 SERIES



APPLICATIONS

- **FIBER OPTICS INTERFACE**
- **FIBER OPTICS SPLITTER**
- **LASER 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 Laser 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 Laser Fiber Optic Interface Modules permit the integration of many different functions designed to a common module. The module also allows the use of many other manufactures assemblies.

ADVANCED PHOTONICS INTERNATIONAL, INC.

The ADVANCED PHOTONICS INTERNATIONAL, INC. standard Laser Fiber Optic Interface Modules are supplied to meet your specific needs. The Laser Fiber Optic Interface Modules permit the integration of a number of Functional Assemblies, See Functional Module Chart. The Modules will allow the experimenters to perform standard and specialized functions.

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

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

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	OTHER BANDS

The Laser 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).

The Laser 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
LFOS1	1 Laser input Splits to 2 Fiber Optic output : Specify R= remote; PT for pigtail
LP2	2 Laser polarization power combiner with an output connector receptacle R= remote; PT = pigtail
LD2	2 Laser dichroic power combiner with an output connector receptacle R= remote; PT = pigtail
LM1	Laser diode to fiber coupler with a monitor photodiode Specify R= remote; PT = pigtail
LISC#	Integrating Sphere allows the laser to feed a number of fiber inputs : specify the number
-F	If you require the assemblies to be focusable please add an -F to the part number
S	If you require the assemblies to accomplish special functions add -S to the part number