High Power 2 µm Fiber Optical isolator



BUY NOW

DATASHEET



This 2 μ m passive device transmits high power light from input fiber into output fiber while blocking the unwanted light from back reflection and scattering. Agiltron's proprietary magnetic-optics technology and advanced micro-optic technique enable industrial leading performance in power handling, low loss, reliability, and cost effective. Agiltron currently provides a full range of polarization-independent, polarization maintaining, and custom design versions with a broad wavelength coverage and various output beam diameters. We have experience to incorporate special fibers.

Applications

- Laser Pump Source
- Optical Fiber Amplifier
- Laser Manufacturing
- Laser Marking

Features

- High Power
- High Isolation
- High Reliability
- Low IL, PDL & TDL
- Cost Effective

Rev 04/02/24

Specifications

Parameter		Min	Typical	Max	Unit	
Center Wavelength		1940, 2000, 2050, 2100				
Wavelength Bandwidth			± 50		nm	
Insertion Loss ^[1]	Single Stage		≤1.2		dD	
	Dual Stage		≤1.5		aB	
Isolation	Single Stage		≥16		dB	
	Dual Stage		≥35			
Polarization Dependent	Single Stage		≤0.15		db	
Loss	Dual Stage		≤0.2		ав	
Extinction ratio ^[2]			≥18		dB	
Return Loss			≥50		dB	
Power Handling			1, 2, 3, 5, 10		w	
Fiber Type		SMF-28e, SM1950, SM2000, PM1550, PM1950, 10/130DCF				
Operating Temperature		0		+65	°C	
Storage Temperature		-40		+85	°C	
Dimensions		ø 5.5x35, 80x12x10				

Notes:

[1]. Without connectors

[2]. PM fiber only

Note: For a polarized input light version, the isolation is optimized to block the light reflection of the same polarization. Although lights of other polarizations may also be blocked, the extinction may be poor. PM isolators can be specially made to block backward propagating lights of all polarizations. PM isolators can also be made with a light polarizing function.

Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind Agiltron only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with the use of a product or its application.

© Photonwares Corporation	P +1 781-935-1200	E sales@photonwares.com	www.agiltron.com		
Information contained bearing to be reliable and exercise on of the insue data. Obstanyuran resource the right to chance the design of constitutions of any time without partice					

Information contained herein is deemed to be reliable and accurate as of the issue date. Photonwares reserves the right to change the design or specifications at any time without notice. Agiltron is a registered trademark of Photonwares Corporation in the U.S. and other countries.

High Power 2 µm Fiber Optical isolator

DATASHEET

Mechanical Footprint Dimensions (mm)



For 6~10W



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

Prefix	Туре	Wavelength	Power Handling	Stage	Fiber Type	Fiber Cover	Fiber Length	Connector
OI2H-	Regular = 11 PM = 12 Special = 00	1940 = 1 2000 = 2 2050 = 3 Special = 0	1W = 1 2W = 2 500mW = 3 5W = 5 10W = 6 Special = 0	Single = 1 Dual = 2 Three = 3	SMF28 = 1 SM1950 = 9 PM1950 = 8 PM 1550 = 5 10/130DCF = 7 Special = 0	Bare fiber = 1 900um tube = 3 Armor cable = 5 Special = 0	0.25m = 1 0.5m = 2 1.0m = 3 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 Special = 0

NOTE:

The regular connector can only handle 0,5W. We make high-power connector (\$390 ea)

© Photonwares Corporation

P +1 781-935-1200

E sales@photonwares.com

www.agiltron.com

Information contained herein is deemed to be reliable and accurate as of the issue date. Photonwares reserves the right to change the design or specifications at any time without notice. Agiltron is a registered trademark of Photonwares Corporation in the U.S. and other countries.