

Fiber optical Isolator

Agilecom's Optical Isolator is a Faraday isolator. This optical isolator achieves passive isolation of linearly polarized light by combining a polarizing beam splitter cube with a garnet crystal faraday rotator. The optical path is epoxy-free, thereby enabling high-power applications.

Key Features

- Low Insertion Loss
- High Isolation
- Ultra Low PDL&PMD
- Epoxy-Free in Optical Path

Compliance

- Telcordia GR1209
- Telcordia GR1221

Applications

- CWDM/DWDM System
- Fiber Laser
- Laboratory R&D
- CATV System

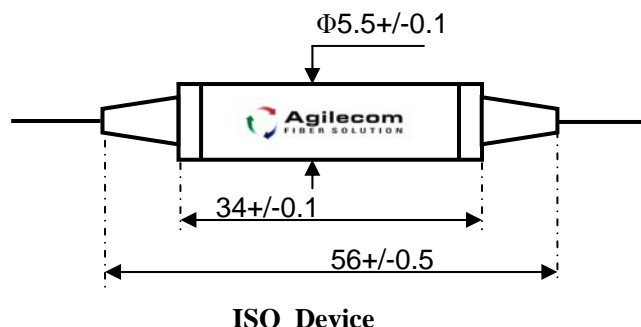


ISO Specifications

Parameter		Unit	Single Stage		Dual Stage	
			P	A	P	A
Operation Wavelength		nm	1310+/-15 or 1550+/-15			
Peak Isolation	Min	nm	42	40	56	53
Isolation ($\lambda c \pm 15\text{nm}, 23^\circ\text{C}$)	Min	nm	32	30	52	50
Isolation ($\lambda c \pm 15\text{nm}, 0 \sim 70^\circ\text{C}$)	Min	nm	22	20	35	32
Peak Isolation Loss	Max	dB	0.30	0.50	0.50	0.70
Insertion Loss ($\lambda c \pm 15\text{nm}, 0 \sim 70^\circ\text{C}$)	Max	dB	0.40	0.60	0.60	0.80
PDL ($\lambda c \pm 15\text{nm}, 23^\circ\text{C}$)	Max	dB	0.05	0.10	0.10	0.15
Polarization Mode Dispersion	Max	ps	0.20	0.20	0.05	0.07
Return Loss (Input/ Output)	Min	dB	65/60	60/55	65/60	60/55
Power Handling	Max	mW	1000			
Fiber Type			Corning SMF-28 or Corning SMF-28e			
Operation Temperature		$^\circ\text{C}$	0~70			
Storage Temperature		$^\circ\text{C}$	-40~85			
Package		mm	$\Phi 5.5 \times L34$			

Notes: Specifications without fiber connectors

Dimensions Diagram



Ordering Information

For more information on these or other products and their availability, please contact our sales department at 408-943-0815 in North America and 86-760-86781889 in China or via e-mail at info@agilecom.net.

Sample: CWDM-0471020-01

Code	Type	Code	Wavelength	Code	Type	Code	Pigtail	Code	Fiber Length	Code	Connector
S	Single Stage	31	1310nm	P	P Grand	0	250μm Bare Fiber	1	0.5m	0	None
D	Dual Stage	55	1550nm	A	A Grand	1	0.9 mm Loose Tube	2	1.0m	1	SC/UPC
		xx	Customize			X	Customize	3	1.5m	2	SC/APC
								4	2.0m	3	FC/UPC
								5	2.5m	4	FC/APC
								6	3.0m	5	LC/UPC
								A	1.25m	6	LC/APC
								B	1.75m	7	ST/UPC
								C	2.25m	8	MU
								X	Customize	X	Customize

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