



High Power Polarization Insensitive Optical Isolator

FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Fiber Optic Amplifiers
- Fiber Optic Instruments
- WDM Systems
- Transmitters and Fiber Lasers
- CATV Networks



SPECIFICATIONS

Parameter	Unit	Single Stage		Dual Stage	
		P Grade	A Grade	P Grade	A Grade
Center Wavelength (λ_c)	nm	1310, 1480, 1550			
Peak Isolation (Typ.)	dB	42	40	58	53
Isolation ($\lambda_c \pm 15\text{nm}$, 23°C, All SOP)	dB	≥ 32	≥ 30	≥ 45	≥ 43
Insertion Loss (λ_c , 23°C, All SOP)	dB	≤ 0.35	≤ 0.4	≤ 0.4	≤ 0.6
Insertion Loss ($\lambda_c \pm 20\text{nm}$, 0-70°C, All SOP)	dB	≤ 0.5	≤ 0.7	≤ 0.6	≤ 0.9
Optical Return Loss (Input/Output)	dB	60/55	60/55	60/55	60/55
Polarization Dependent Loss	dB	≤ 0.05	≤ 0.10	≤ 0.10	≤ 0.15
Polarization Mode Dispersion	ps	≤ 0.25	≤ 0.25	≤ 0.05	≤ 0.07
Fiber Tensile Load	N	5			
Maximum Optical Power (CW)	W	1, 2, 3, 10			
Operating Temperature	°C	0~70			
Storage Temperature	°C	-40~85			
Package Dimension	mm	$(\Phi)5.5 \times 35$			

- Note:**
1. SOP= State of Polarization
 2. Specifications are for device without connectors.
 3. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and optical power will be 1W.
 4. Devices for higher optical power and pulse power are also available per request.

ORDERING INFORMATION

FISO- NNNN - C	C	-HP N - N	NN	- CC/CC		
Center Wavelength	Stage.	Grade.	Optical Power	Fiber Type	Fiber Length	Connector Type
1310= 1310nm	S= Single Stage	P= P Grade	1=1W	B= Bare Fiber	10=1.0m	N =Without Connector
1550= 1550nm	D= Dual Stage	A= A Grade	3=3W	L= 900um Loose Tube	15=1.5m	FC/APC=FC/APC Connector
1480=1480nm			10=10W		20=2.0m	LC/PC =LC/PC Connector