

IN-LINE OPTICAL ISOLATOR

Features

- Low insertion loss & high isolation
- Low PDL & PMD
- Optical path epoxy free
- Telcordia compliant
- RoHS compliant



Applications

- EDFA
- WDM system
- Fiber optic instruments

Specifications

Parameter		Specification				Unit
Center Wavelength (λ_c)		1310/1550/1590				nm
Standard		Standard Size				
Single/Dual Stage		Single (Grade P)	Single (Grade A)	Dual (Grade P)	Dual (Grade A)	
Isolation (at $\lambda_c \pm 15\text{nm}$) ¹	Min	30	28	45	43	dB
Isolation (at $\lambda_c \pm 15\text{nm}$) ²	Min	22	22	42	40	dB
Insertion Loss (at λ_c) ¹	Typ	0.4	0.5	0.5	0.55	dB
Insertion Loss (at $\lambda_c \pm 15\text{nm}$) ²	Max	0.5	0.6	0.6	0.7	dB
Return Loss (Input/Output)	Min	60/55	55/55	60/55	55/55	dB
PDL	Max	0.05	0.08	0.08	0.10	dB
PMD	Max	0.05	0.05	0.05	0.05	ps
Operating Temperature Range		0~+70				°C
Storage Temperature Range		-40~+85				°C
Maximum Power Handling		500				mW
Package Dimension (L*Φ)		40*5.5				mm

Specifications

Parameter		Specification				Unit
Center Wavelength (λ_c)		1310/1550/1590				nm
Size		Mini Size				
Single/Dual Stage		Single (Grade P)	Single (Grade A)	Dual (Grade P)	Dual (Grade A)	
Isolation (at $\lambda_c \pm 15\text{nm}$) ¹	Min	30	28	45	43	dB
Isolation (at $\lambda_c \pm 15\text{nm}$) ²	Min	22	22	40	38	dB

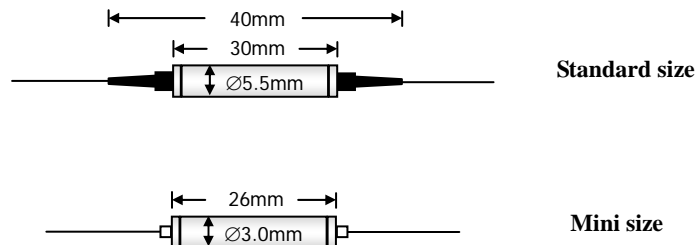
Insertion Loss (at λ_c) ¹	Typ	0.4	0.5	0.5	0.55	dB
Insertion Loss (at $\lambda_c \pm 15\text{nm}$) ²	Max	0.5	0.6	0.6	0.7	dB
Return Loss (Input/Output)	Min	55/55	55/55	55/55	55/55	dB
PDL	Max	0.08	0.1	0.08	0.1	dB
PMD	Max	0.05	0.05	0.05	0.5	ps
Operating Temperature Range			0~+70			°C
Storage Temperature Range			-40~+85			°C
Maximum Power Handling			500			mW
Package Dimension (L*Φ)			26*3.0			mm

Parameter	Specification		Unit	
Center Wavelength (λ_c)	1064		nm	
Single/Dual Stage	Single Stage	Dual Stage		
Isolation (at λ_c) ¹	Min	25	45	dB
Insertion Loss (at λ_c) ¹	Typ	1.8	3.5	dB
Insertion Loss (at λ_c) ²	Max	2.5	4.5	dB
Return Loss (Input/Output)	Min	55/55	55/55	dB
PDL	Max	0.1	0.1	dB
Operating Temperature Range	0~+70		°C	
Storage Temperature Range	-40~+85		°C	
Maximum Power Handling	150		mW	
Package Dimension (L*Φ)	40*5.5		mm	

1. Tested at 23°C, all SOP, and values referenced without connector.

2. Tested at 0~70°C, all SOP, and values referenced without connector.

Dimension



Order Information

ISO – A – B – C – D – E – F

A	Single/Dual Stage	S: Single stage without PMD D: Dual stage P: Single stage with PMD
B	Grade	P: P-grade A: A-grade
C	Center Wavelength	31: 1310nm 55: 1550nm 59: 1590nm 64: 1064nm
D	Fiber Type	1: 250µm bare fiber 2: 900µm tight buffer fiber
E	Size	1: Standard size 2: Mini size
F	Connector Type	0: Without connector 1: FC/PC 2: FC/UPC 3: FC/APC 4: SC/PC 5: SC/UPC 6: SC/APC 7: ST 8: LC 9: MU X: Customized