

High Power Polarization Insensitive Optical Isolator

FEATURES

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

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

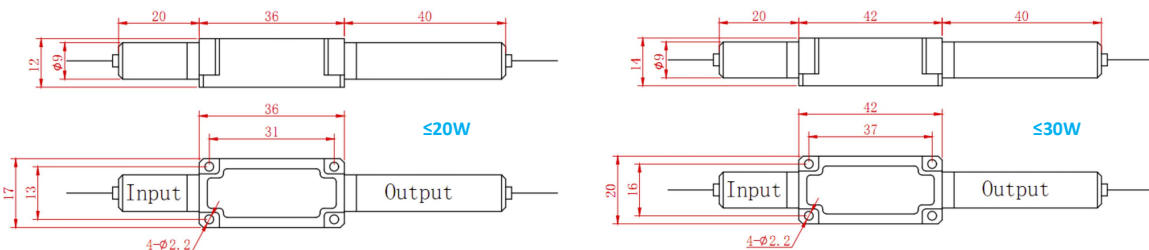


SPECIFICATIONS

Parameter	Unit	Single Stage	Dual Stage	H Stage
Center Wavelength (λ_c)	nm	1310, 1480, 1550, 1590		
Peak Isolation (Typ.)	dB	42	58	35
Isolation ($\lambda_c \pm 15\text{nm}$, 23°C, All SOP)	dB	≥ 28	≥ 45	≥ 25
Insertion Loss (λ_c , 23°C, All SOP)	dB	≤ 0.35	≤ 0.4	≤ 0.5
Insertion Loss ($\lambda_c \pm 20\text{nm}$, 0-70°C, All SOP)	dB	≤ 0.55	≤ 0.65	≤ 0.8
Optical Return Loss (Input/Output)	dB	60/55	60/55	55/50
Polarization Dependent Loss	dB	≤ 0.05	≤ 0.10	≤ 0.20
Polarization Mode Dispersion	ps	≤ 0.25	≤ 0.05	≤ 0.20
Fiber Type	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC Fiber (G)		
Fiber Tensile Load	N	5		
Maximum Optical Power (CW)	W	1, 2, 3, 5, 10		15, 20, 30
Operating Temperature	°C	0~50		
Storage Temperature	°C	-40~85		
Package Dimension	Stainless Steel Tube (SST)	mm	$\phi 5.5 \times L^{38}$ ($\leq 5\text{W}$), $\phi 6.0 \times L^{50}$ ($> 5\text{W}$)	
	Metal Box-M	mm	$L^{120} \times W^{12} \times H^{10}$	

- Note:**
- SOP= State of Polarization
 - Specifications are for device without connectors; Specifications may change without notice.
 - To add connectors, IL is 0.3dB higher, RL is 5dB lower.
 - Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 - Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

PACKAGE DIMENSION (H STAGE)



ORDERING INFORMATION (PN)

FISO-NNNN	- C	-HP	NN	- (C)	(C)	C	NN	- CC/CC
Center Wavelength	Stage	Optical Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type	
1310-1310nm	S= Single Stage	1-1W	M= Metal Box	O=10/130 DC Fiber	B= Bare Fiber	05=0.5m	N= Without Connector	
1550-1550nm	D= Dual Stage	3-3W	Blank for SST	T=12/130 DC Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector	
1480-1480nm	H= H Stage	10-10W		G=25/300 DC Fiber	2=2mm Cable	15=1.5m	LC/PC=LC/PC Connector	
1590-1590nm		20-20W		Blank for SMF-28 Fiber	3=3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector	

