



Polarization-Insensitive Optical Isolator (1310/1550/1585)

FEATURES

- High Isolation
- Low Insertion Loss
- High Return Loss
- Low Polarization Sensitivity
- Epoxy Free Optical Path

APPLICATION

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- Fiberoptic Systems Testing
- Fiberoptic LAN Systems
- Telecommunications

PERFORMANCE SPECIFICATIONS

Parameter	Specifications							
	Standard				Mini			
Package Type	Standard				Mini			
Operating Wavelength	1310nm,1550nm or 1585nm				1310nm,1550nm,1585nm or Custom			
Stage	Single		Dual		Single		Dual	
Grade	P	A	P	A	P	A	P	A
Typical Peak Isolation	40dB	40dB	56dB	56dB	40dB	40dB	55dB	55dB
Minimum Isolation* (Min)	≥ 32dB	≥ 30dB	≥ 46dB	≥ 45dB	≥ 30dB	≥ 29dB	≥ 42dB	≥ 40dB
Typical Insertion Loss** (Max)	0.30dB	0.40dB	0.40dB	0.50dB	0.40dB	0.50dB	0.55dB	0.60dB
Insertion Loss*** (Max)	≤ 0.50dB	≤ 0.70dB	≤ 0.60dB	≤ 0.80dB	≤ 0.60dB	≤ 0.80dB	≤ 0.75dB	≤ 0.80dB
Return Loss (In/Out) (Min)	≥ 65/60dB	≥ 60/55dB	≥ 65/60dB	≥ 60/55dB	≥ 55/50dB	≥ 55/50dB	≥ 55/50dB	≥ 55/50dB
Polarization Dependent Loss (Max)	≤ 0.05dB	≤ 0.10dB	≤ 0.05dB	≤ 0.10dB	≤ 0.10dB	≤ 0.15dB	≤ 0.10dB	≤ 0.15dB
Polarization Mode Dispersion (Max)	≤ 0.20ps (0.05 available upon request)				≤ 0.25ps (0.05 available upon request)			
Bandwidth	± 15nm		± 30nm		± 15nm		± 30nm	
Optical Power	≤ 500mW							
Operating Temperature	-20 to +70°C							
Storage Temperature	- 40 to +85°C							
Package Dimensions	A= Standard, Ø 5.5 x L30 (250µm bare fiber/900µm tight buffer), Ø 5.5 x L34 (900µm loose tube)				N= Mini, Ø 3.0 x L25 (250µm bare fiber only)			

Note: *) Overall bandwidth at 23°C

**) Not including connector, splice and fiber-end Fresnel losses.

***) Including PDL, operating wavelength range, -20° C to +70° C.

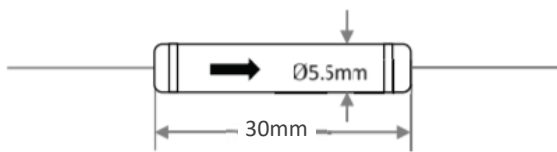
All values referenced are without connector.

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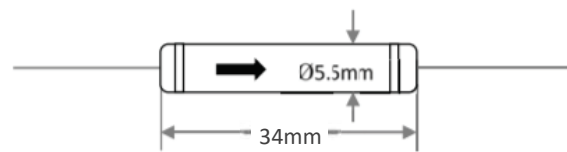
MECHANICAL DIMENSIONS

A Package

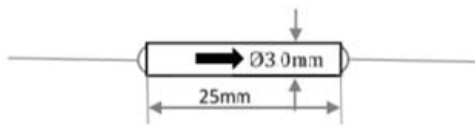
250µm bare fiber/900µm tight buffer



900µm loose tube



N Package



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Grade	Package	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
IS=Single stage	31=1310nm	P=P grade	A=A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0= None	0= None
IU=Dual stage	55=1550nm	A=A grade	N=N package	(G.657.A1)	2=900um loose tube	10=1.0m	1= FC/APC	1= FC/APC
				3=ClearCurve ZBL(G.657.B3)	6=900um tight buffer	·	2= FC/PC	2= FC/PC
	58=1585nm	·	·	·	3= SC/APC	3= SC/APC		
		·	·	·	4= SC/PC	4= SC/PC		
SS=Custom	20=2.0m	5= ST	5= ST					
		6= LC/UPC	6= LC/UPC					
		7= LC/APC	7= LC/APC					

*1=SMF-28(G.652) is available upon request.