



# Polarization-Insensitive Optical Isolator (1480/U/SCL-band)

## 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				1540nm Ultra-Wide
	Single		Dual		
Operating Wavelength	1480nm or 1620nm				1540nm
Stage	Single		Dual		Ultra-Wide
Grade	P	A	P	A	P
Typical Peak Isolation	42dB	40dB	55dB	52dB	50dB
Minimum Isolation* (Min)	≥ 32dB	≥ 40dB	≥ 45 <sup>1)</sup> dB	≥ 44dB	≥ 45 <sup>1)</sup> dB
	-	-	-	-	≥ 40 <sup>2)</sup> dB
Typical Insertion Loss**	0.50dB	0.60dB	0.60dB	0.70dB	0.70 <sup>2)</sup> dB
Insertion Loss*** (Max)	≤ 0.70dB	≤ 0.80dB	≤ 0.80dB	≤ 0.90dB	≤ 0.90 <sup>2)</sup> dB
Return Loss (In/Out) (Min)	≥ 65/60dB	≥ 60/55dB	≥ 65/60dB	≥ 60/55dB	≥ 60/55dB
Polarization Dependent Loss	≤ 0.05dB	≤ 0.10dB	≤ 0.05dB	≤ 0.10dB	≤ 0.05dB
Polarization Mode Dispersion	≤ 0.20ps (0.05 Custom)		≤ 0.20ps (0.05 Custom)		≤ 0.20ps (0.05 Custom)
Bandwidth	± 15nm		± 30nm		± 80nm
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)				A=Standard, Ø 5.5 x L34 (250µm bare fiber) Ø 5.5 x L38 (900µm loose tube)

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.

1) At 23°C, SOP

2) At 0 ~ 60°C, SOP

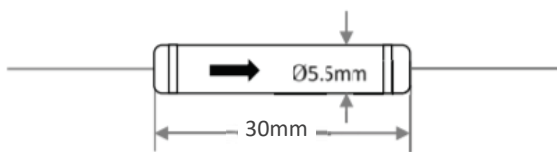
All values referenced are without connector.

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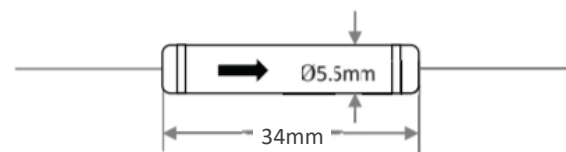
### MECHANICAL DIMENSIONS

A Package (1480 or 1620nm)

250µm bare fiber/900µm tight buffer

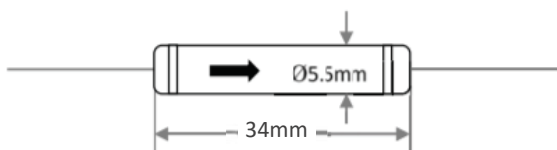


900µm loose tube

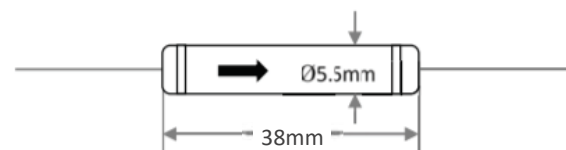


A Package (SCL band)

250µm bare fiber/900µm tight buffer



900µm loose tube



### PORT CONFIGURATIONS



### ORDERING INFORMATION

Type	Operating Wavelength	Grade	Package	Fiber Type*	Pigtail Style	Fiber Length**	In Connector	Out Connector
IS=Single stage	48=1480nm	P=P grade	A=A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0= None	0= None
IU=Dual stage	62=U Band 54=S/C/L Band	A=A grade	A=A 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
				·	·	3= SC/APC	3= SC/APC	
				·	·	4= SC/PC	4= SC/PC	
				·	·	5= ST	5= ST	
				·	·	6= LC/UPC	6= LC/UPC	
·	·	7= LC/APC	7= LC/APC					
						20=2.0m		

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

\*\* Other length is available upon request, However, 900µm loose tube is only up to 2m.