



2x2 Polarization-Insensitive Optical Isolator (1310/1550/1585)

FEATURES

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

APPLICATION

- Fiber optic 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,1585nm or custom					
Stage	Single		Dual		Single	Dual
Grade	P	A	P	A	P	P
Typical Peak Isolation	41dB	40dB	58dB	53dB	35dB	50dB
Minimum Isolation	≥ 31 ¹⁾ dB	≥ 30 ¹⁾ dB	≥ 45 ¹⁾ dB	≥ 44 ¹⁾ dB	≥ 28 ¹⁾ dB	≥ 41 ¹⁾ dB
Typical Insertion Loss	0.5 ²⁾ dB	0.6 ²⁾ dB	0.7 ²⁾ dB	0.8 ²⁾ dB	0.45 ²⁾ dB	0.6 ²⁾ dB
Insertion Loss	≤ 0.7 ³⁾ dB	≤ 0.8 ³⁾ dB	≤ 0.8 ³⁾ dB	≤ 0.9 ³⁾ dB	≤ 0.6 ³⁾ dB	≤ 0.7 ³⁾ dB
Return Loss (In/Out)	≥ 60/55dB	≥ 60/55dB	≥ 60/55dB	≥ 60/55dB	≥ 55/50dB	≥ 55/50dB
Crosstalk	≥ 60dB	≥ 55dB	≥ 60dB	≥ 55dB	≥ 55dB	≥ 55dB
Polarization Dependent Loss	≤ 0.1dB	≤ 0.15dB	≤ 0.1dB	≤ 0.15dB	≤ 0.15dB	≤ 0.15dB
Polarization Mode Dispersion	≤ 0.2ps (0.05 Custom)		≤ 0.1ps (0.05 Custom)		≤ 0.1ps (0.05 Custom)	
Bandwidth	± 15nm		± 30nm		± 15nm	± 30nm
Optical Power	≤ 500mW					
Operating Temperature	-20 to +70°C					
Storage Temperature	- 40 to +85°C					
Package Dimensions	A= Standard, Φ5.5xL34mm (250um fiber), Φ5.5xL38mm (900um fiber)				N= Mini, Ø 3.0 x L25mm	

Note: 1) Overall bandwidth at 23°C

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

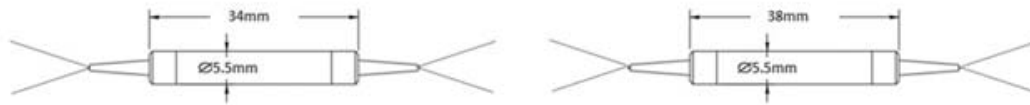
3) Including PDL, operating wavelength range, -20° C to +70° C.

All values referenced are without connector.

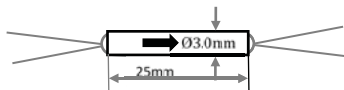
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MECHANICAL DIMENSIONS

A Package



N Package



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Grade	Package	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
DIS=Single stage	33=1310nm	P=P grade	A= A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0= None	0= None
DIU=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
	58=1585nm			3=ClearCurve	6=900um tight buffer	·	2= FC/PC	2= FC/PC
	SS=Custom			ZBL(G.657.B3)	·	3= SC/APC	3= SC/APC	
				·	·	4= SC/PC	4= SC/PC	
					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.