



High Power Polarization-Insensitive Optical Isolator

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			
	Single		Dual	
Grade	P	A	P	A
Operating Wavelength	1310nm,1550nm,1585nm or custom			
Stage	Single		Dual	
Typical Peak Isolation	≥42dB	≥42dB	≥58dB	≥55dB
Minimum Isolation	≥ 32 ¹⁾ dB	≥ 32 ¹⁾ dB	≥ 44 ¹⁾ dB	≥ 43 ¹⁾ dB
Typical Insertion Loss	0.40 ²⁾ dB	0.50 ²⁾ dB	0.55 ²⁾ dB	0.65 ²⁾ dB
Insertion Loss	≤ 0.60 ³⁾ dB	≤ 0.70 ³⁾ dB	≤ 0.70 ³⁾ dB	≤ 0.80 ³⁾ dB
Return Loss (In/Out)	≥ 60/55dB	≥ 60/55dB	≥ 60/55dB	≥ 60/55dB
Polarization Dependent Loss	≤ 0.05dB		≤ 0.10dB	
Polarization Mode Dispersion	≤ 0.2ps (0.05 available upon request)		≤ 0.2ps (0.05 available upon request)	
Bandwidth	± 15nm		± 30nm	
Optical Power	1, 2, 3, 5W and custom			
Peak Power for ns Pulse	-			
Operating Temperature	-20 to +70°C			
Storage Temperature	- 40 to +85°C			
Package Dimensions	A= Standard, Φ5.5xL34mm (250um bare fiber), Φ5.5xL42mm (900um fiber)			

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.

High Power Polarization-Insensitive Optical Isolator

MECHANICAL DIMENSIONS



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Grade	Package	Fiber Type*	Pigtail Style	Fiber Length**	In Connector	Out Connector
H11S=Single stage, 1W	31=1310nm	P=P grade	A= A package	2=SMF-28 Ultra (G.657.A1)	1=Bare fiber	05=0.5m	0= None	0= None
·	48=1480nm	A=A grade			2=900um loose tube	10=1.0m	1= FC/APC	1= FC/APC
·	55=1550nm			3=ClearCurve ZBL(G.657.B3)		·	2= FC/PC	2= FC/PC
H51S=Single stage, 5W	LB=L band					·	3= SC/APC	3= SC/APC
H11U=Dual stage, 1W	SS=Custom					20=2.0m	4= SC/PC	4= SC/PC
·							5= ST	5= ST
·							6= LC/UPC	6= LC/UPC
H51U=Dual stage, 5W							7= LC/APC	7= LC/APC

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

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