

1310-1550nm Polarization Independent Isolator (2×2)

Features

Low insertion loss
High isolation
Temperature Stability

Application

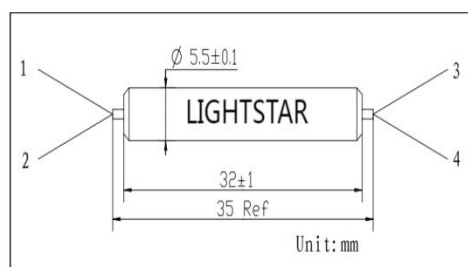
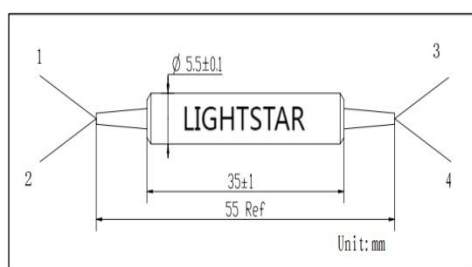
Fiber laser
Optical instrument
Wave band Erbium doped fiber amplifiers

Specifications

Parameter	Unit	Value			
Type		Single stage		Double stage	
Rank		Grade P	Grade A	Grade P	Grade A
Central wavelength	nm	1550, 1480 or 1310			
Bandwidth	nm	±20			
Peak isolation (Port 4 to Port 1, Port 3 to Port 2)	dB	42	40	58	55
Minimum isolation (Port 4 to Port 1, Port 3 to Port 2) at λ_c	dB	34	32	52	50
Typical insertion loss (Port 1 to Port 4, Port 2 to Port 3) at 23 °C	dB	0.45	0.55	0.55	0.7
Maximum insertion loss (Port 1 to Port 4, Port 2 to Port 3) at -5 °C-70°C λ_c	dB	0.65	0.75	0.75	0.9
Return loss(Input/Output)	dB	55 / 55	55 / 55	55 / 55	55 / 55
Directivity (Port 1 to Port 2, Port 3 to Port 4) at 23°C	dB	55	55	55	55
Crosstalk (Port 1 to Port 3, Port 2 to Port 4) at 23 °C	dB	55	55	55	55
Maximum polarization dependent loss 23°C	dB	0.06	0.1	0.08	0.15
Maximum polarization mode dispersion	ps	0.2 ¹	0.25 ¹	0.05	0.07
Power(CW)	mW	500			
Maximum tensile load	N	5			
Fiber type		SMF-28e Fiber			
Operating temperature	°C	-5 to +70			
Storage temperature	°C	-40 to +85			

When using the Connector, the processing power is only 1W, the Insertion loss is 0.3dB higher, the return loss is 5dB lower, and the extinction ratio is 2dB lower. The Connector key is aligned with the slow axis.

Package dimensions



Ordering information

PIIS-①①①①-②-③-④-⑤-⑥

①①①①:Wavelength
1310=1310nm
1550=1550nm
SSSS=Specify

②:Type
S=Single stage
D=Double stage

③:Rank
P=P Grade
A=A Grade

④:Pigtail type
1=250um bare fiber
2=900um loose tube
S=Specify

⑤:Length
H=0.5m
1= 1.0m
S=Specify

⑥:Connector
0=None
1=FC/UPC
2=FC/APC
S=Specify