

Jacket Tube Standard Size Optical Isolator

Data Center & Cloud Computing Infrastructure Solutions



Overview

The optical isolator is an optical component which can guide optical light in one direction and eliminates back reflection and back scattering in the reverse direction at any polarization state. This product is characterized with low insertion loss, high isolation, high return loss, excellent environmental stability and reliability.

It has been widely used in EDFA, DWDM systems, and other fiber optic communication equipments to suppress back reflection and back scattering.

Features

- Wide operating wavelength
- High isolation & Low insertion loss & Low PDL
- High stability and reliability

Applications

- EDFA & Testing instruments
- WDM & DWDM system
- Fiber-optic components

Technical Specification

Parameters	Single Stage	Dual Stage
Operating Wavelength (nm)	1310, 1550	
Bandwidth (nm)	±15	
Typ. Insertion Loss (dB)	0.35	0.4
Insertion Loss (dB)	≤ 0.5	≤ 0.55
Peak Isolation (dB)	42	58
Isolation @23°C (dB)	≥ 28	≥ 46
PDL (dB)	≤ 0.05	≤ 0.1
PMD (ps)	≤ 0.2	≤ 0.05
Return Loss (dB)	≥ 60/55	
Power Handling (mW)	≤ 500	
Cable Diameter	900um; 2mm; 3mm	
Fiber Length	1m; 0.5m	
Fiber Type	SMF-28e	
Connector	None; LC/UPC; LC/APC; SC/UPC; SC/APC; FC/UPC; FC/APC	
Operating Temperature (°C)	-5~ +70	
Storage Temperature (°C)	-40 ~ +80	

Note:

1. Above specifications are for devices without the connectors;
2. If the device is with connectors, an additional 0.3dB to the insertion loss will be added, and the return loss will be reduced by 5dB.

Dimension



Ordering Information

ID	Description
----	-------------

[#29406](#)

Customized 1M 1310nm or 1550nm Jacket Tube Standard Size Optical Isolator



 <https://www.fs.com>



The information in this document is subject to change without notice. FS has made all efforts to ensure the accuracy of the information, but all information in this document does not constitute any kind of warranty.