

Model OT-SWDM-H-1315 High Isolation Single Mode Fiber Wavelength Division Multiplexer

Features / Benefits



APPLICATIONS

- Multiplexing/Demultiplexing
- Fiber Optic CATV
- Fiber Optic Test Equipment
- Bi-directional Communication Over a Single Fiber
- Double System Capacity Over a Single Fiber
- Line Relay Equipment

FEATURES

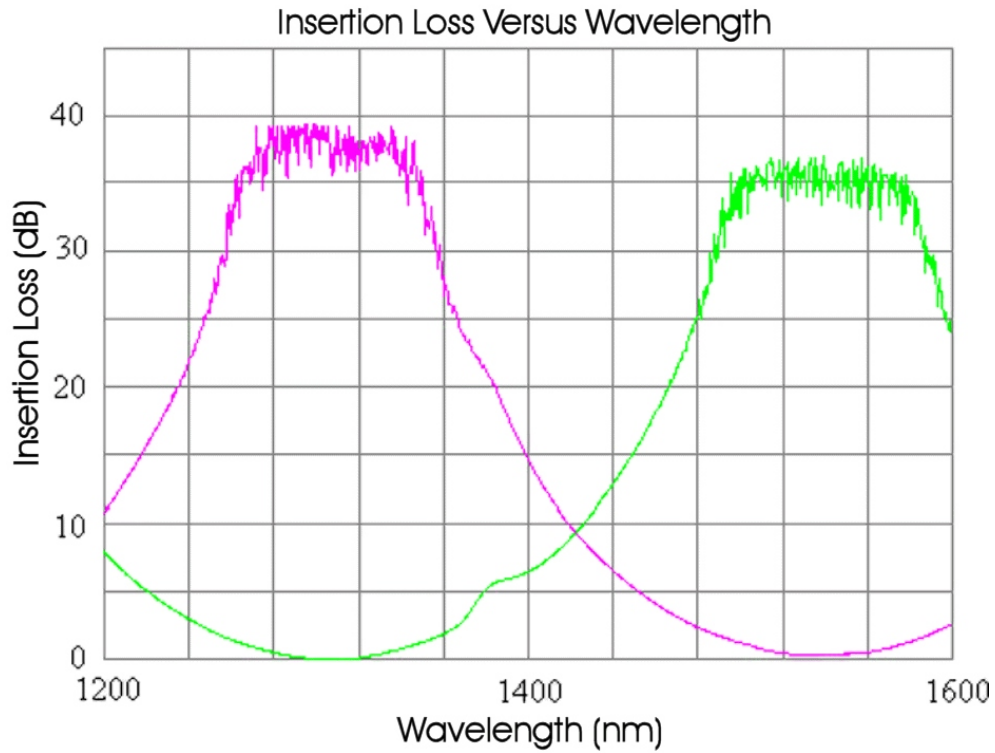
- All Fiber Construction
- High Reliability
- Outstanding Optical Performance
- Available for 1310 nm and 1550 nm

Operating Specifications

Parameter	Units	Specification
Center Wavelength ()	nm	1310 or 1550
Bandwidth	nm	±20
Max. Insertion Loss	dB	0.75
Min. Wavelength Isolation	dB	30
Typ. Isolation in 10 nm BW	dB	40
Max. Polarization Stability	dB	0.15
Min. Directivity	dB	55
Max. Temperature Coefficient	dB/°C	0.003
Operating Temperature	°C	-20 to +75
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	O: 100 x 80 x 9 L: 120 x 80 x 18

Qualifications and Reliability Tests

Dry Heat	85 ± 2°C for 5000 Hours
Damp Heat	75 ± 2°C/90 ± 5% RH for 5000 Hours
Low Temp. Storage	-40 + 5°C for 5000 Hours
Water Immersion	43 ± 2°C and PH 5.5 ± 0.5 for 168 Hours
Temperature Cycling	-40 ± 2°C to 85 ± 2°C for 500 Cycles
Vibration	10 Hz to 2000 Hz, 1.52 mm max, amplitude, 3 axes 2 hours per axis
Impact Test	1.8 m, 3 axes, 8 times per axis



Ordering Information

OT - SWDM - H - 1315 - A - 9 - - - -

Package (mm)
 O = 100 x 80 x 9
 L = 120 x 80 x 18
 Z = Olson OTCP Housing

Pigtail
 1 = 0.9 mm Tight Buffer
 3 = 3 mm Cable
 00 = Receptacle (Package L Only)

Pigtail Length
 05 - 99 = 0.5 - 9.9 Meters
 00 = Receptacle (Package L Only)

Connector
 FA = FC/APC
 SA = SC/APC