

Model OT-SWDM Standard 1310 / 1550 nm SM Fiber Wavelength Division Multiplexer

Features / Benefits



APPLICATIONS

- Fiber Communications System
- Fiber Optic Monitor System
- Fiber Optic Test Equipment
- EDFA
- Fiber Optic Sensing

FEATURES

- All Fiber Construction
- High Reliability
- Outstanding Optical Performance
- Compact Size

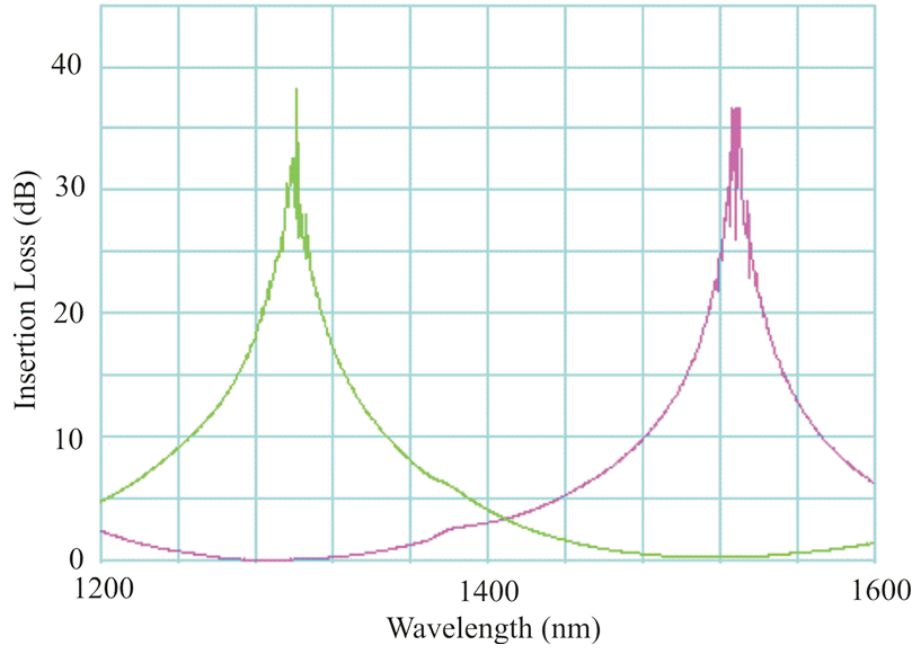
Operating Specifications

Parameter	Units	Specification
Center Wavelength (λ_c)	nm	1310 and 1550
Bandwidth	nm	± 20
Max. Insertion Loss	dB	0.35
Min. Wavelength Isolation	dB	15
Typ. Isolation in 10 nm Bandwidth	dB	20
Max. Polarization Stability	dB	0.1
Min. Directivity	dB	55
Max. Temperature Coefficient	dB/°C	0.002
Operating Temperature	°C	-40 to +85
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	F: $\phi 3.5 \times 72$ L: 120 x 80 x 18 M: 100 x 19 x 9

Qualifications and Reliability Tests

Dry Heat	85 \pm 2°C for 5000 Hours
Damp Heat	75 \pm 2°C/90 \pm 5% RH for 5000 Hours
Low Temp. Storage	-40 \pm 5°C for 5000 Hours
Water Immersion	43 \pm 2°C and PH 5.5 \pm 0.5 for 168 Hours
Temp Cycling	-40 \pm 2°C to 85 \pm 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

Wavelength Dependence of Insertion Loss



Ordering Information

OT — SWDM — S — 1315 — Y — A — 9 — — — —

Package (mm)
 F = $\varnothing 3.5 \times 72$
 L = 120 x 80 x 18
 M = 100 x 19 x 9
 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