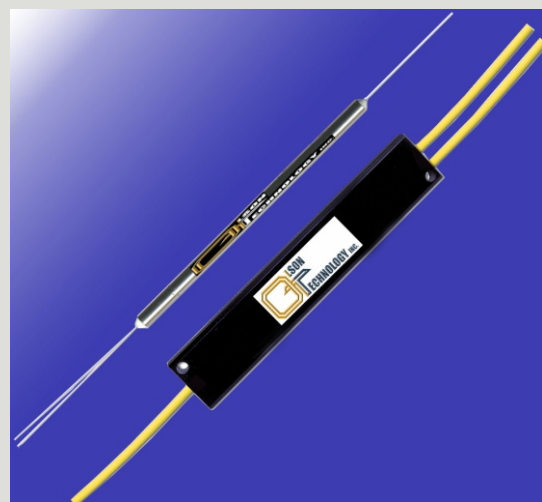


Model OT-SSC 1x2 Standard Single Mode Fiber Coupler

Features / Benefits



APPLICATIONS

- Fiber to the Home (FTTH)
- Local Loop
- Passive Optical Networks (PON)
- Fiber Optic CATV
- Fiber Communications System
- Fiber Optic Test Equipment
- Fiber Optic Sensing
- Local Area Networks (LAN)

FEATURES

- All Fiber Construction
- High Reliability
- Outstanding Optical Performance
- Multiple Fiber Types Available

Operating Specifications

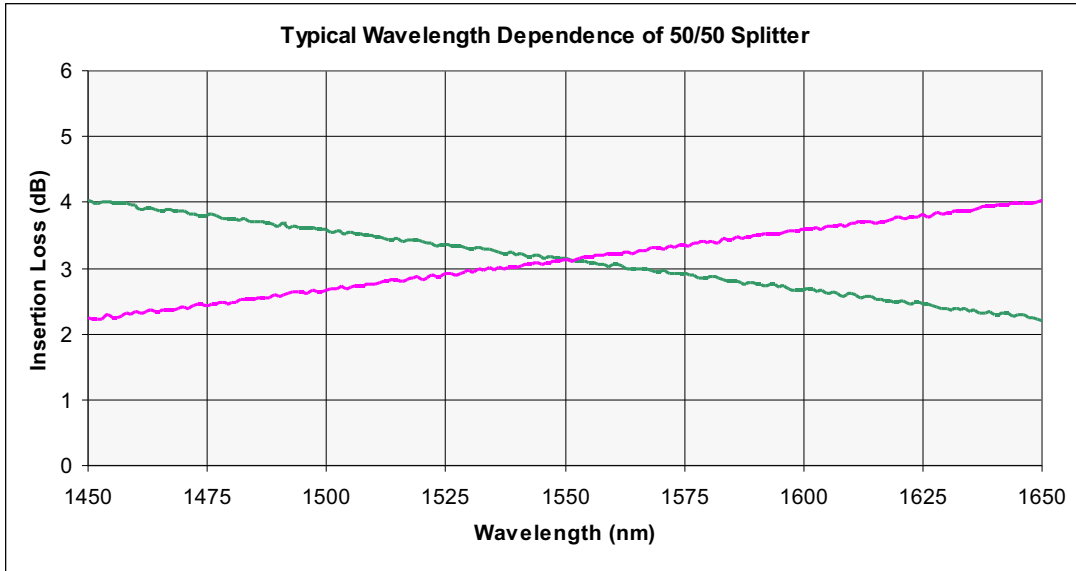
Parameter	Units	Specification
Center Wavelength (λ_c)	nm	1310 or 1550
Bandwidth	nm	± 20
Coupling Ratio	%	10 to 50
Typical Excess Loss	dB	0.12
Max. Polarization Dependent Loss	dB	0.15
Min. Directivity	dB	50
Max. Uniformity	dB	0.8
Typ. Flatness	dB	0.4
Max. Temp Coefficient	dB/°C	0.002
Operating Temperature	°C	-40 to +85
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	C: $\varnothing 3.0 \times 54$ (250 μm Fiber) O: 100 x 80 x 9 L: 120 x 80 x 18

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

Insertion Loss for Standard Coupler

Ratio (%)	Typ. Loss (dB)	Max. Loss (dB)	Ratio (%)	Typ. Loss (dB)	Max. Loss (dB)
10/90	10.1/0.6	11.2/0.8	35/65	4.7/2.0	5.3/2.3
15/85	8.4/0.9	9.2/1.0	40/60	4.1/2.4	4.6/2.7
20/80	7.1/1.1	7.9/1.3	45/55	3.6/2.8	4.0/3.1
25/75	6.2/1.4	6.8/1.6	50/50	3.1/3.1	3.5/3.5
30/70	5.4/1.7	5.9/1.9			



Ordering Information

OT-SSC — Y — A — — — 9 — — — —

- Coupling Ratio:
10 - 50 = 10% - 50%
- Wavelength
13 = 1310 nm
15 = 1550 nm
X = Other
- Package (mm)
C = \varnothing 3.0 x 54 (250 μ m Fiber)
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)
X = Others
- Connector
FA = FC/APC
SA = SC/APC