



## 1x2 (2x2) Ultra-High Reliability Narrowband Splitter

### Features of our splitter:

- Moisture Resistant
- Impact-Resistant
- Vibration-Resistant
- Compact Size

### Applications for our splitter:

- Submarine Cable System
- Submarine Optical Amplifier
- Optical Communication System
- Optical Fiber Amplifier
- EDFA Module

### Specifications:

Specification		Splitting Ratio: 50:50		
Parameter		Unit	Premium	A grade
Bandwidth		nm	+/-10	
Insertion Loss	Max.	dB	3.40	3.60
Excess loss	Typ.	dB	0.07	0.10
Uniformity	Max.	dB	0.60	1.00
PDL	Max.	dB	0.05	0.10
Return Loss *	Min.	dB	50	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Type		mm	S6	Diam. 3x54: for bare fiber

\* >60dB on request for 1x2 structure

Ultra-High Reliability Test	Results
High Temperature Storage (85 C)	5000 hours
Temperature cycling (-40 C to 85 C)	1000 cycles
Damp Heat Test (85 C / 85 % RH)	5000 hours
Low Temperature Storage (-40 C)	5000 hours
Impact Test (drop test, 1.8m)	20 times/each axis (3 axes)
Vibration Test (10 to 2000 Hz/20 g)	30 minutes/12 times (3 axes)



<b>Splitting Ratio and Insertion Loss Conversion Table</b>				
Splitting Ratio	Maximum Insertion Loss (dB)			
	Premium		A Grade	
Output Port	Output Port 1	Output Port 2	Output Port 1	Output Port 2
50:50	3.4	3.4	3.6	3.6
95:5	0.4	14.6	0.5	18.4
96:4	0.3	16.0	0.4	19.0
97:3	0.3	17.5	0.4	19.5
98:2	0.2	19.0	0.3	20.0
99:1	0.2	21.5	0.3	22.0
99.5:0.5	0.2	23.0	0.3	24.0

**Ordering Information:**

- Wavelength: 1590, 1570, 1550, 1480, 1475, 1310, 1060, 980
- Structure: 1x2 or 2x2
- Splitting Ratio: 99.5:0.5, 99:1, 98:2, 97:3, 96:4, 95:5, 50:50
- Grade: Premium (P) or A grade
- Fiber type: SMF-28, HI1060, HI980, HI1060Flex, OFS SMB-D0980B
- Pigtail: 250um bare fiber
- Fiber length: 0.5m, 1.0m, 1.5m, 2.0m, customer's request
- Connector: none, FC/PC, FC/APC, ST, customer's request

**We have unbeatable price for this product.**

- Price is updating, please make a request for our most recent price by calling (514) 334-4588 or by emailing [sales2@o-eland.com](mailto:sales2@o-eland.com)