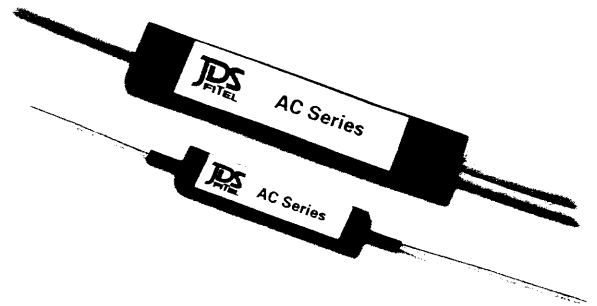
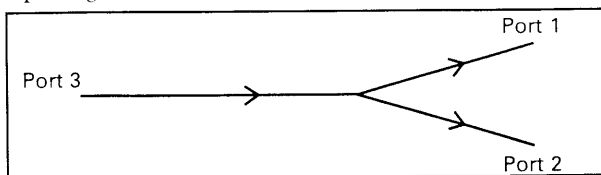


# AC Series Broadband Couplers/Splitters for 850, 1300 and 1550 nm

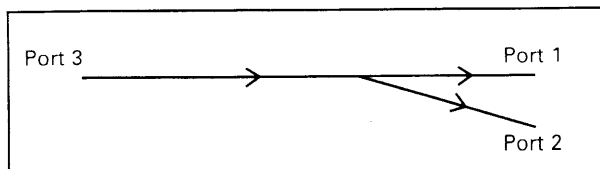


## Applications

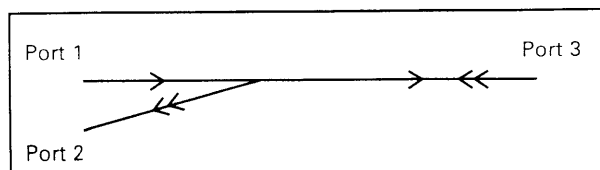
### Splitting



### Tapping/Monitoring



### Bidirectional Transmission\*



\* available with optional -68 dB backreflection FC/APC connector on common port 3 (single-mode only)

## Key Features

- Multimode (850 nm) or single-mode (1300 and 1550 nm) versions
- Wavelength independent and wavelength flattened design
- 900  $\mu\text{m}$  tight buffer or 3 mm cable available
- Low loss, high return loss, high directivity
- Negligible polarization sensitivity

## Specifications

Output port ratio	50/50	30/70	10/90
Number of ports	1x2	1x2	1x2
Ratio tolerance	50±5/50±5	28±3.5/72±3.5	10±2/90±2
Common-to-output insertion loss <sup>1</sup>	<3.8/<3.8 dB	<6.5/<2.4 dB	<12.5/<1.5 dB
Excess loss <sup>1</sup>		<0.6 dB	
Wavelength range	780-920 nm (MM <sup>2</sup> ), 1275-1335 and 1500-1580 nm (SM <sup>3</sup> & MM)		
Return loss	>55 dB (SM, typical -68 dB), >22 dB (MM)		
Directivity	>58 dB (SM), >25 dB (MM)		
Polarization sensitivity	<0.1 dB		
Operating/storage temperature	-40 to 75°C		
Fiber length	1.5 m standard		

1. Excluding connector loss.
2. MM = multimode.
3. SM = single-mode.

## Ordering Information

Indicate your application requirements by selecting one feature from each configuration table. For more information on this or other products and their availability, please contact your local JDS FITEC sales representative, or JDS FITEC directly at (613)727-1303, or by fax at (613)727-8284 or via e-mail at sales@jdsfitec.com.

<b>A. Output port ratio</b>	<b>Check One</b>
1. 50/50	
2. 30/70	
3. 10/90	

<b>B. Wavelength</b>	<b>Check One</b>
1. 800-900 nm (MM)	
2. 1275-1335 and 1500-1580 nm (SM or MM)	

<b>C. Fiber</b>	<b>Check One</b>
1. 9/125	
2. 50/125	
3. 62.5/125	

<b>D. Fiber Jacketing / Package Dimensions</b>	<b>Check One</b>
1. 250 µm (SM only) / 5.6 x 5.6 x 38.1 mm	
2. 900 µm / 8.9 x 8.9 x 45.7 mm	
3. 3.0 mm / 8.1 x 14.7 x 82.6 mm	

<b>E. Connector</b>	<b>Check One</b>
1. No Connector	
2. FC/PC	
3. FC/APC (SM only)	
4. SC/PC	
5. SC/APC (SM only)	
6. ST/PC	
7. D4	
8. Biconic	
9. SMA (MM only)	

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