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EVANESCENCE BASED VARIABLE SPLIT RATIO FIBER SPLITTER/COUPLER

Features

- Variable splitting ratio
- Low insertion loss
- Broad bandwidth
- Good uniformity
- Small package
- High directivity
- Selectable wavelength: 400 to 2000 nm

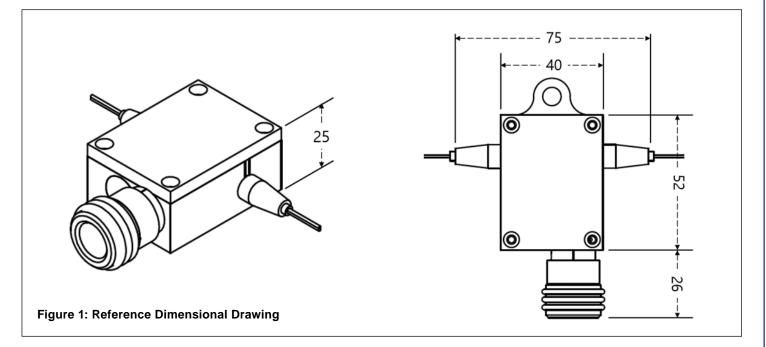
Applications

- Optical amplifiers
- Fiber lasers
- Power monitoring
- Fiber gyroscopes
- Coherent communications

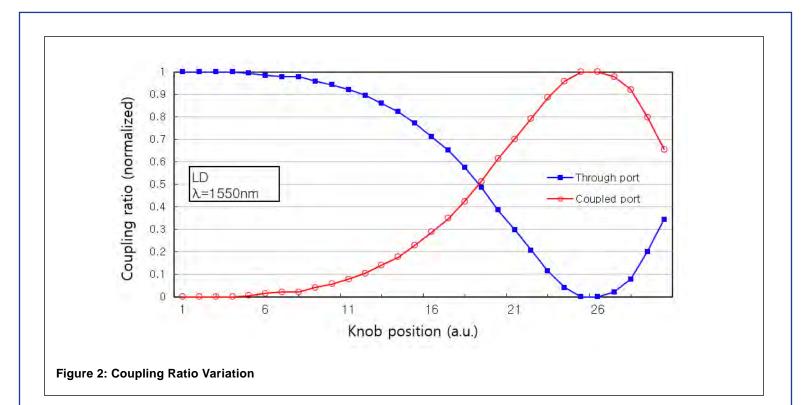
Product Description

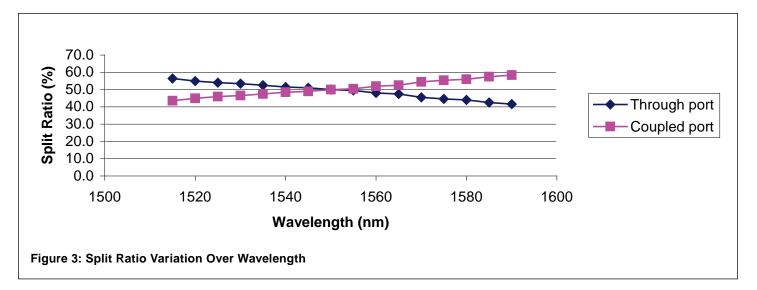
Variable split ratio fiber splitters provide splitting ratios tunable from 0% to 100% with negligible optical loss. The device consists of two side-polished fibers mated to induce evanescent field coupling. The coupling ratio is controlled by adjusting the distance between the cores of the two side-polished fibers. PM fiber models with customer specified birefringence axis alignment are available.





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Ordering Information For Standard Parts

Standard Parts

Bar Code	Part Number	Description	
67232	VBS-22-1300/1550-9/125-S-3A3A3A3A-1-1	Evanescence based variable ratio fiber 2x2 splitter for 1260-1650nm with 1 meter long, 0.9 mm OD jacketed, 9/125 um single mode fiber leads, terminated with FC/APC connectors on all ports	
67226	S-22-1550-8/125-P-3A3A3A3A-1-1 Evanescence based variable ratio fiber 2x2 splitter for 1450-1650nm with 1 meter with FC/APC connectors, slow axis locked to the key on all ports.		
67225	5 VBS-22-1310-7/125-P-3A3A3A3A-1-1 Evanescence based variable ratio fiber 2x2 splitter for 1290-1550nm with 1 meter with FC/APC connectors, slow axis locked to the key on all ports.		

Specifications*

	Without connectors	With connectors
Operation Wavelength (nm)	1260–1650	
Tuning Range of Coupling Ratio (%)	0–100	
Insertion Loss (dB)	<0.1	<0.5
Polarization Extinction Ratio (dB, PMF only)	>20	>18

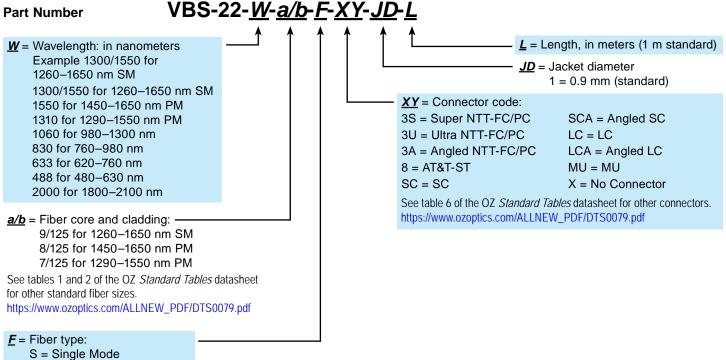
(*) For 1260–1650 nm. Other wavelength bands available upon request.

Questionnaire For Custom Parts

- What is your center wavelength and operating bandwidth? 1.
- What type of fiber are you using: single mode, polarization maintaining? 2.
- What, if any, connectors are required for each port? 3.
- What fiber length is required? 4.

Ordering Information For Custom Parts





P = Polarization Maintaining