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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

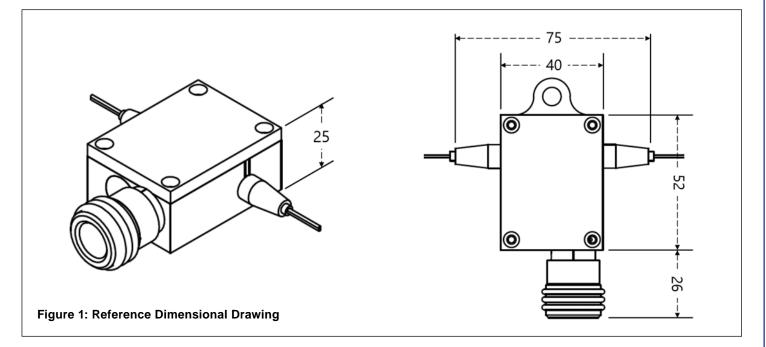
#### **Applications**

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

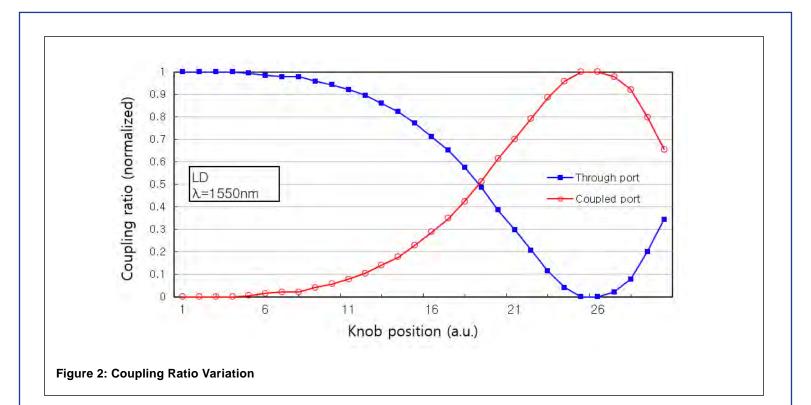
# **Product Description**

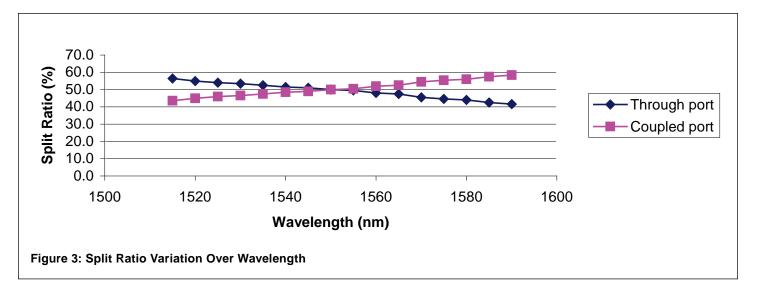
Variable split ratio fiber splitters provide splitting ratios tunable from 0% to 100% with negligible optical loss. The device consists of two side-polished fibers mated to induce evanescent field coupling. The coupling ratio is controlled by adjusting the distance between the cores of the two side-polished 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	VBS-22-1550-8/125-P-3A3A3A3A3A-1-1	Evanescence based variable ratio fiber 2x2 splitter for 1450-1650nm with 1 meter long, 0.9 mm OD jacketed, 8/125 um polarization maintaining fiber leads, terminated with FC/APC connectors, slow axis locked to the key on all ports.	
67225	VBS-22-1310-7/125-P-3A3A3A3A3A-1-1	Evanescence based variable ratio fiber 2x2 splitter for 1290-1550nm with 1 meter long, 0.9 mm OD jacketed, 7/125 um polarization maintaining fiber leads, terminated 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

VBS-22-<u>W-a/b-F-XY-JD</u>-L

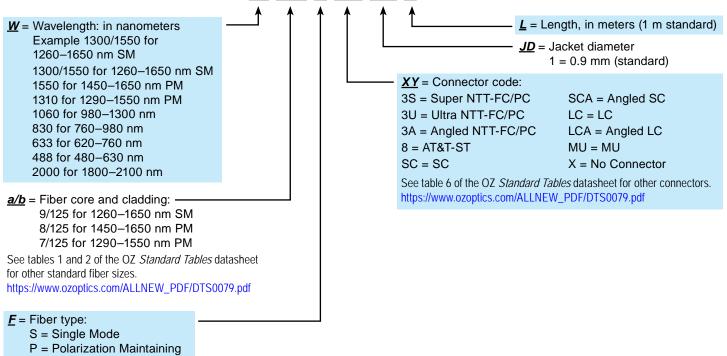
(\*) For 1260-1650 nm. Other wavelength bands available upon request.

# **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.
- 3. What, if any, connectors are required for each port?
- 4. What fiber length is required?

# **Ordering Information For Custom Parts**





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