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

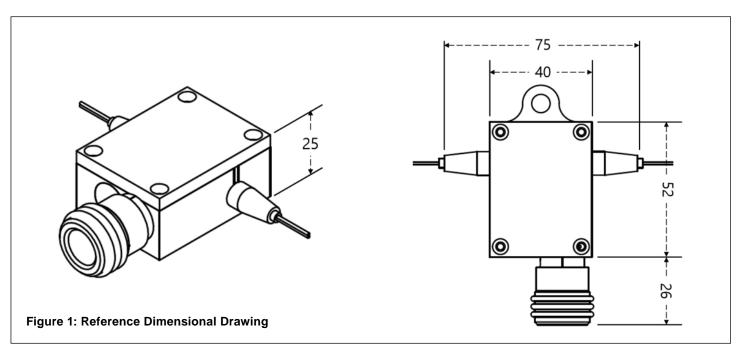
Applications

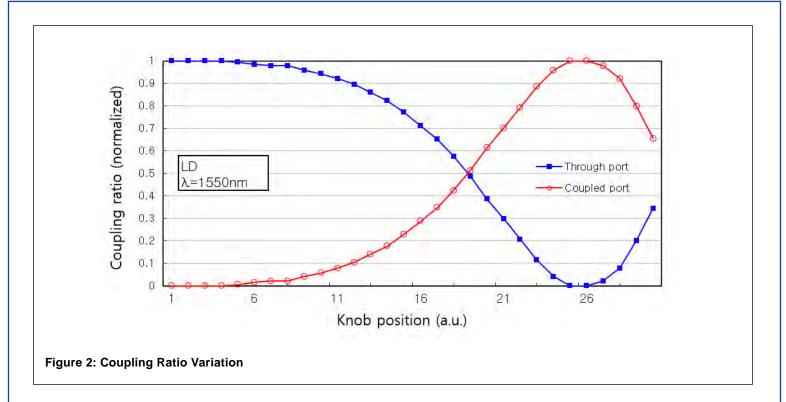
- · Optical amplifiers
- Fiber lasers
- · Power monitoring
- · Fiber gyroscopes
- · Coherent communications

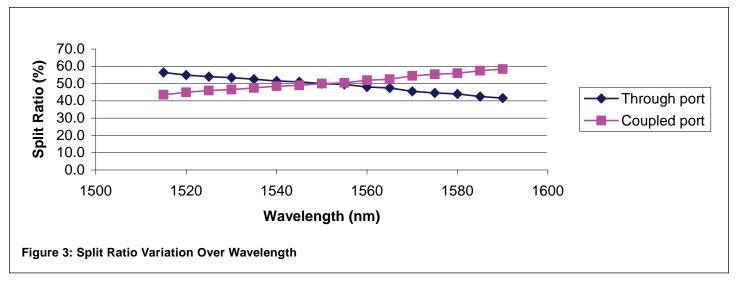
Product Description

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.









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-3A3A3A3A-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-3A3A3A3A-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	

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

Questionnaire For Custom Parts

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

Ordering Information For Custom Parts

