# **Directional Coupler**

Last Updated: August 2019

### Description

The directional coupler is commonly used for splitting and combining light in photonics. It consists of two parallel waveguides where the coupling coefficient is influenced by the waveguide length and the distance between waveguides.

#### Model Name

ebeam\_dc\_te1550

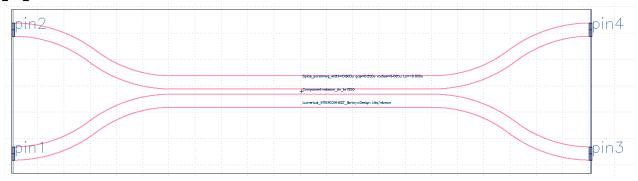


Fig. 1: Compact Model of a Directional Coupler

## **Compact Model Information**

- Support for TE polarization
- Operating at 1550 nm wavelength
- Performance:
  - o TE TBD
  - TM TBD

### [Insert SEM Picture]

Fig. 2: SEM Picture of a Directional Coupler

### **Parameters**

Parameter	Default Value	Notes
Coupler Length	10	

# **Simulation Results**

From [Source]:

#### [Insert Simulation Results]

Fig. 3: Simulation Results for Directional Coupler

## **Experimental Results**

From [Source]:

## [Insert Experimental Results]

Fig. 4: Experimental Results for Directional Coupler

# **Additional Details**

• Design tools & methodology:

# Reference

1.