# Taper

*Last Updated: August 2019*

## Description

Tapers are used to connect devices with different waveguide widths to prevent loss and ensure a smaller area for waveguide transitions. The taper length is dependent on the indicated waveguide widths.

## Model Name

ebeam_taper_te1550

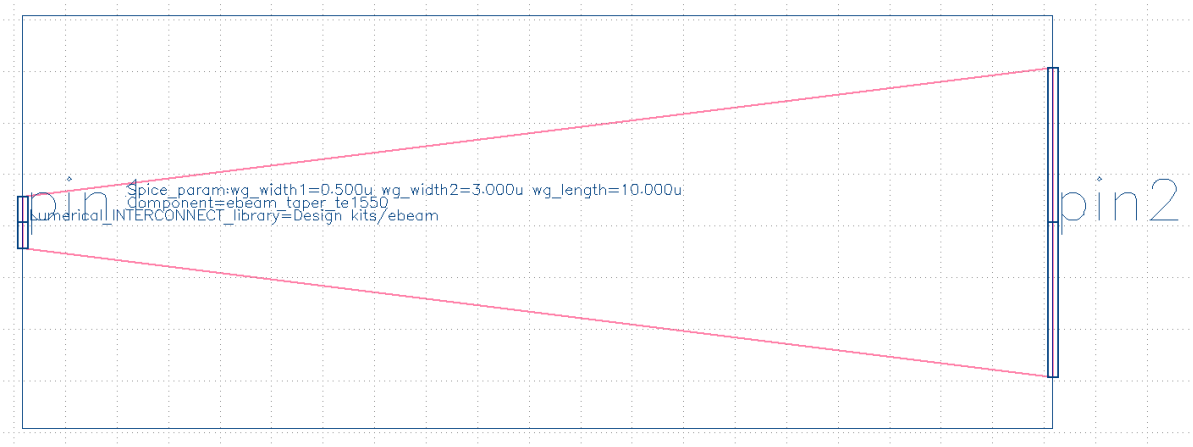


Fig. 1: Compact Model of Taper

## Compact Model Information

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

[Insert SEM Picture & other relevant photos of model]

Fig. 2: SEM Picture of Taper

## Parameters

| Parameter | Default Value | Notes |
|---|---|---|
| Waveguide Width1 | 0.5 | CML only supports 0.4, 0.5, 0.6 |
| Waveguide Width2 | 3 | CML only supports 1, 2, 3 |
| Waveguide Width Length | 10 | CML only supports a range of 1-10 |

## Simulation Results

From [Source]:

[Insert Simulation Results]

Fig. 3: Simulation Results for Taper

http://github.com/lukasc-ubc/SiEPIC_EBeam_PDK/

## Experimental Results

From [Source]:

[Insert Experimental Results]

Fig. 4: Experimental Results for Taper

## Additional Details

- Design tools & methodology:

## Reference

1.