

## Terminator

*Last Updated: August 2019*

### Description

This component is used to terminate a waveguide. This terminator is a nano-taper that spreads the light into the oxide and is used for efficient edge coupling. Even if a waveguide crosses near this taper end, the reflection is minimal. This is included in this model, 1  $\mu\text{m}$  away, therefore, the model is a worst-case reflection. To terminate unused ports on components to avoid reflections, refer to Disconnected Waveguides.

### Model Name

ebeam\_terminator\_te1550 & ebeam\_terminator\_tm1550

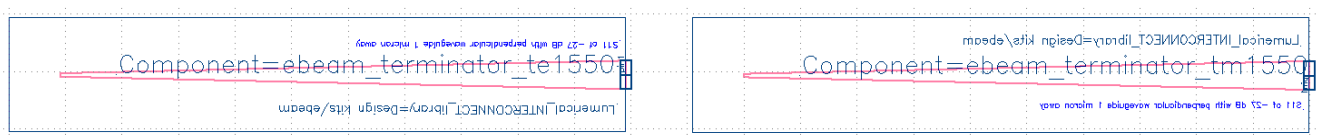


Fig. 1: Compact Model of TE and TM Terminators

### Compact Model Information

- Support for TE and TM polarization using their respective models
- Operating at 1550 nm wavelength
- Performance:
  - TE - TBD
  - TM - TBD

[Insert SEM Picture & other relevant photos of model]

Fig. 2: SEM Picture of Terminator

### Parameters

N/A

### Simulation Results

From [Source]:

[Insert Simulation Results]

Fig. 3: Simulation Results for Terminator

### Experimental Results

From [Source]:

[Insert Experimental Results]

Fig. 4: Experimental Results for Terminator

### Additional Details

- Design tools & methodology:

### Reference

- 1.