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## **Comsol Rf Waveguide**

RF heating in a waveguide is modeled using the Microwave Heating predefined interface available when adding the RF

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Module to the COMSOL  
Multiphysics ®  
simulation platform.  
Physics Configurations:  
Define Ports, Cables,  
Line Currents, and  
More

## **Modeling Software for RF, Microwave, and Millimeter-Wave**

...  
COMSOL Multiphysics,  
with the RF Module,  
makes it easy to  
compute the  
impedance, fields,

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losses, and other operating parameters needed when designing a CPW. Grounded Coplanar Waveguide Design in 2D Two typical Coplanar Waveguides are diagrammed in cross section below.

## **Modeling of Coplanar Waveguides | COMSOL Blog**

To redirect microwaves passing through a

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waveguide, you can add a bent section. This is appropriately referred to as a waveguide bend. When you have such a bend in between two straight, rectangular waveguides, it will look something like this:  
Schematic of an aluminum waveguide with a bend.

**Quick Intro to  
Modeling RF and  
Microwave Heating |**

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## **COMSOL Blog**

The Port boundary condition in the RF Module, an add-on to the COMSOL Multiphysics® software, can be used to launch and absorb electromagnetic energy. We explain how to set up a circular waveguide port and review the analytical solution that defines the port mode field. We also analyze a polarized circular port

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for power transmission with respect to port orientation, and then extend the model ...

## **How to Use Circular Ports in the RF Module | COMSOL Blog**

This is a model of an RF waveguide bend with a dielectric block inside. There are electromagnetic losses in the block as well as on the waveguide walls which cause the



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assembly to heat up over time. The material properties of the block are functions of temperature. The transient thermal behavior, as well as the steady-state solution, are computed.

## **RF Heating - COMSOL Multiphysics®**

RF heating in a waveguide is modeled using the Microwave Heating predefined

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interface available when adding the RF Module to the COMSOL Multiphysics® simulation platform. Physics Configurations: Define Ports, Cables, Line Currents, and More

## **Modeling Software for RF, Microwave, and Millimeter-Wave**

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RF Module The combination of COMSOL® products

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required to model your application depends on several factors and may include boundary conditions, material properties, physics interfaces, and part libraries.

## **Substrate Integrated Waveguide - COMSOL Multiphysics®**

Both the RF and the Wave Optics Module can handle high-frequency

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electromagnetic wave simulations. However, with the Wave Optics Module you can do time-harmonic simulations of domains that are much larger than the wavelength. This situation is typical for optical phenomena, components, and systems. Due to the relatively weak

**Wave Optics Module  
- COMSOL  
Multiphysics**

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The Scattering boundary condition for 2D axisymmetric models now includes a plane wave option for the scattered wave type. This means that you can now set up the Scattering boundary condition to absorb a wave propagating along a coaxial waveguide, as shown in the example below. Furthermore, it is also possible to enter the field of an incident

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wave propagating  
along the symmetry  
axis.

### **RF Module - COMSOL 5.1 Release Highlights**

Watch this step-by-step instructional video to learn how the Microwave Heating interface in COMSOL Multiphysics can help you solve a variety of RF and microwave heating problems. In this example ...

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## **How to Model RF Heating in a Waveguide Bend**

For users of the RF Module, COMSOL Multiphysics® version 5.3a brings a new study step for running adaptive frequency sweeps, a Material Library for microwave and millimeter-wave circuit boards, an extended RF Part Library with edge launch connectors, and

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### Waveguide

an example of a wideband radar cross section (RCS) calculation using time-explicit ...

## **RF Module Updates - COMSOL® 5.3a Release Highlights**

RF Module The combination of COMSOL® products required to model your application depends on several factors and may include boundary conditions, material



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properties, physics interfaces, and part libraries.

## **Waveguide Adapter - COMSOL**

### **Multiphysics®**

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Numeric Ports in Your  
RF Analyses;

KNOWLEDGE BASE

Using symmetries in  
COMSOL Multiphysics;

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Analysis. FORUM

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Simulation of 2D and 3D optical fiber for frequency domain for mode analysis and boundary mode analysis using comsol 5.5.

## **mode analysis of a waveguide - comsol.nl**

RF Module The combination of COMSOL ® products required to model your application depends on several factors and

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may include boundary conditions, material properties, physics interfaces, and part libraries.

## **Waveguide Iris Bandpass Filter - COMSOL**

### **Multiphysics®**

For users of the RF Module, COMSOL Multiphysics® version 5.3 brings a Part Library for common RF devices, extended options for the Lumped

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Element boundary condition, and S-parameter calculation for transient simulations. Browse all of the RF Module updates in more detail below. New RF Part Library

### **RF Module Updates - COMSOL® 5.3 Release Highlights**

You can now run simultaneous full-wave and ray tracing simulations by

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combining the Ray Optics Module functionality with your RF Module simulations. This enables multiscale electromagnetic modeling, such as analyzing a waveguide beaming into a large room, where a full-wave simulation would be computationally prohibitive.

**RF Module Updates -  
COMSOL® 5.5  
Release Highlights**

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