Problem info

Problem type: AC Magnetics , frequency: 100000000 Hz,
Geometry model class: Plane-Parallel
Problem database file names:

- Problem: *microstrip_inductance.pbm*
- Geometry: *Microstrip.mod*
- Material Data: *Microstrip_inductance.dhe*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

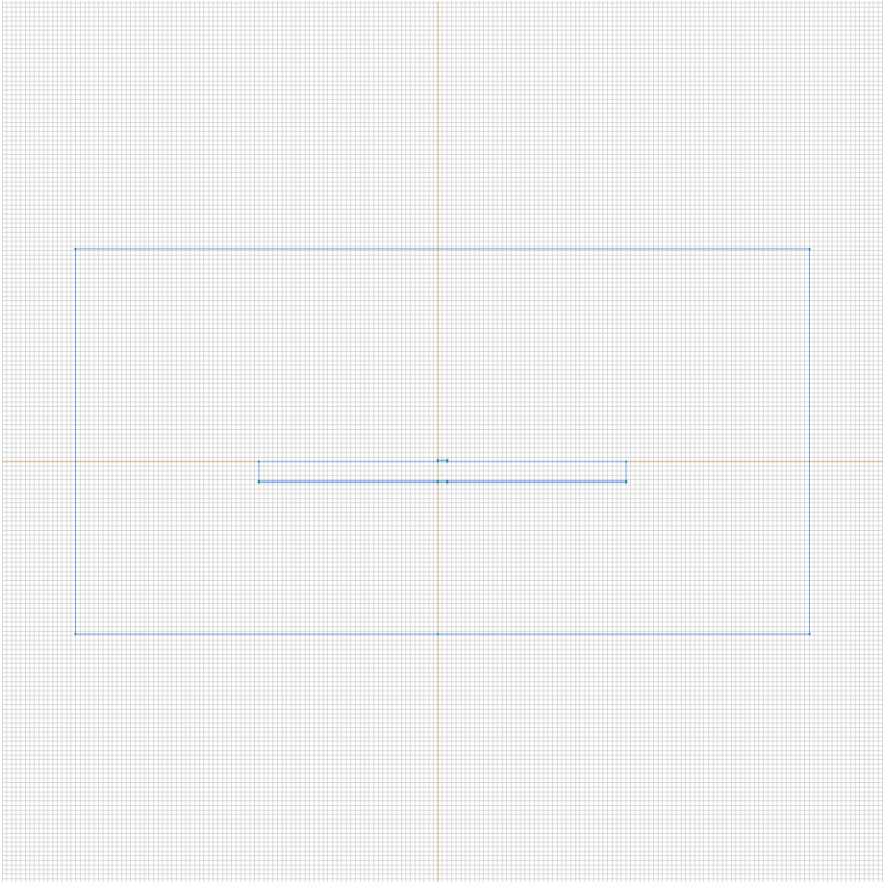


Table 1. Geometry model statistics

	With Label	Total
Blocks	4	4
Edges	3	21
Vertices	0	19

Number of nodes: 62682.

Labelled objects

There are following labelled objects in the geometry model (Material Data file could contain more labels, but only those labels that assigned to geometric objects are listed)

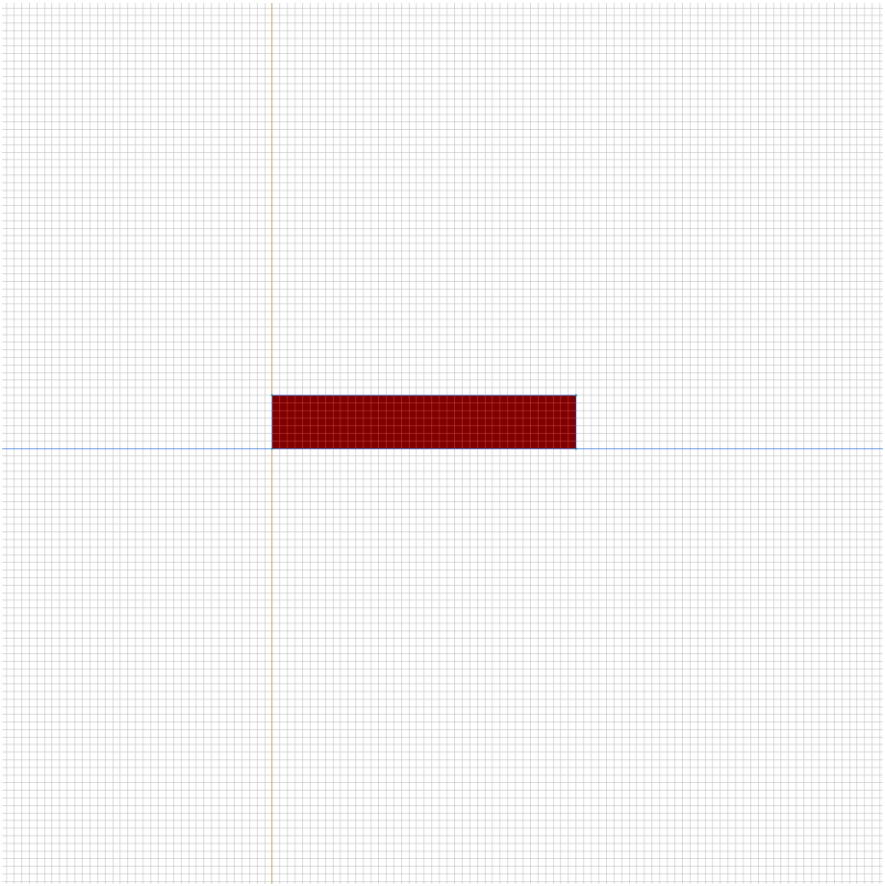
Blocks:	Edges:	Vertices:
• trace1 • ground • air • dielectric •	• V+ • V0 • boundary •	

Detailed information about each label is listed below.

Labelled objects: block "trace1"

There are (1) objects with this label

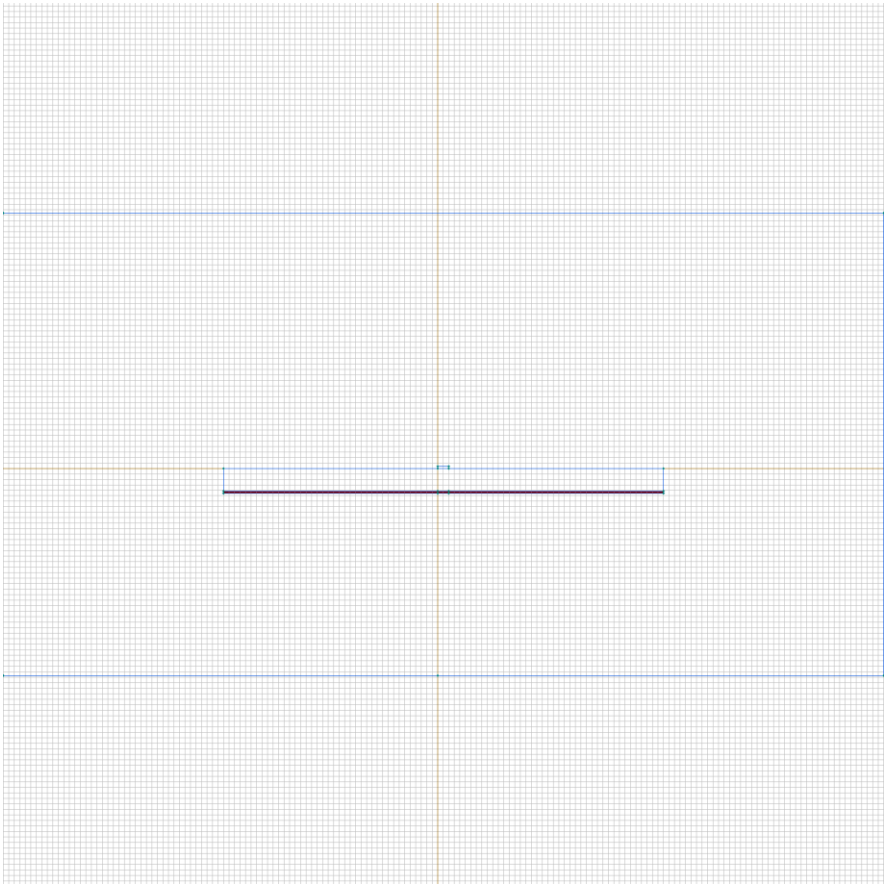
Relative magnetic permeability: mu_x=1, mu_y=1
Electric conductivity: sigma=56000000 [S/m]
Total current: I=0.000001 [A], phase 0 [deg]
Conductor's connection: in parallel



Labelled objects: block "ground"

There are (1) objects with this label

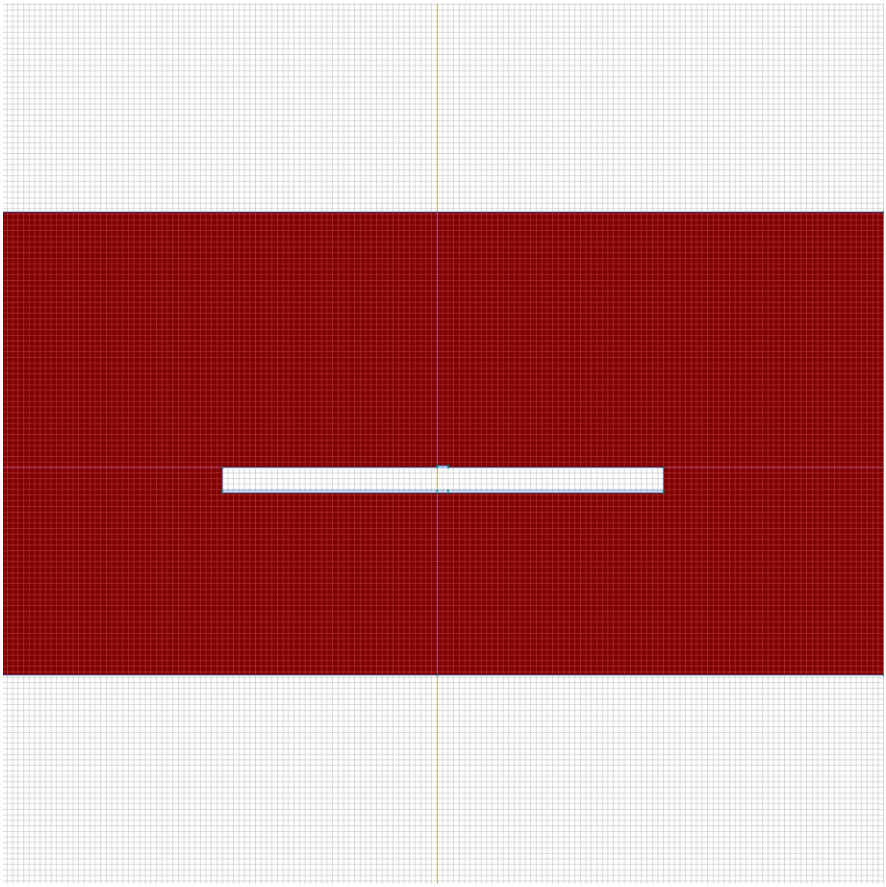
Relative magnetic permeability: mu_x=1, mu_y=1
Electric conductivity: sigma=56000000 [S/m]
Total current: I=-0.000001 [A], phase 0 [deg]
Conductor's connection: in parallel



Labelled objects: block "air"

There are (1) objects with this label

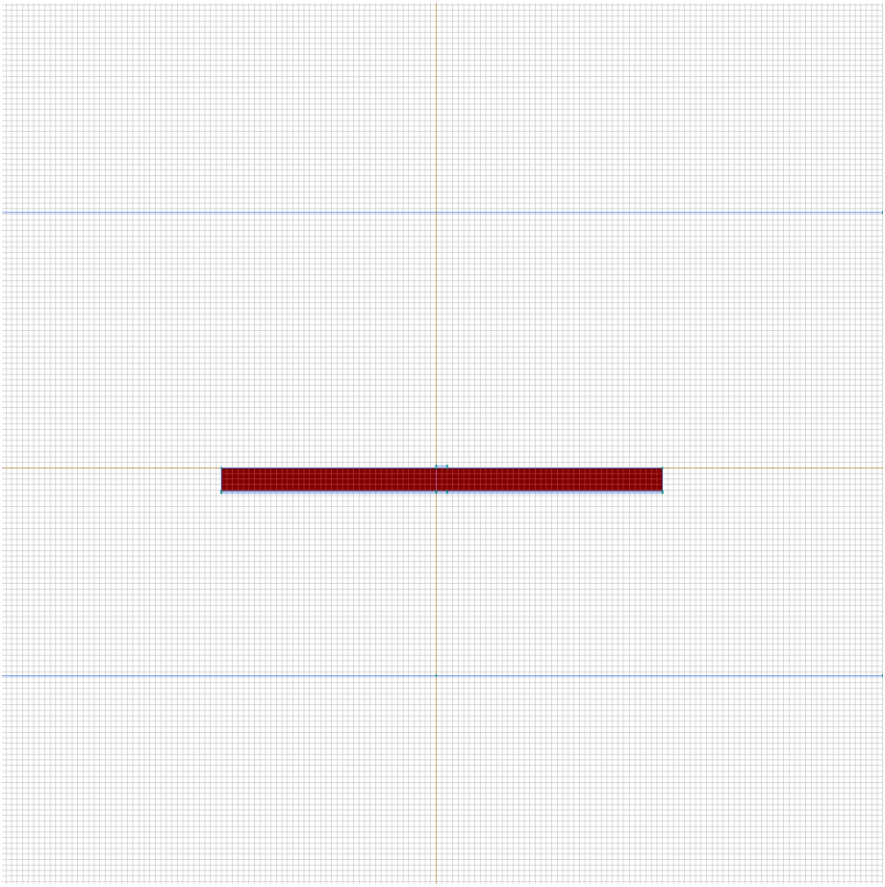
Relative magnetic permeability: mu_x=1, mu_y=1
Electric conductivity: sigma=0 [S/m]
Current density: j=0 [A/m2], phase 0 [deg]
Conductor's connection: in parallel



Labelled objects: block "dielectric"

There are (1) objects with this label

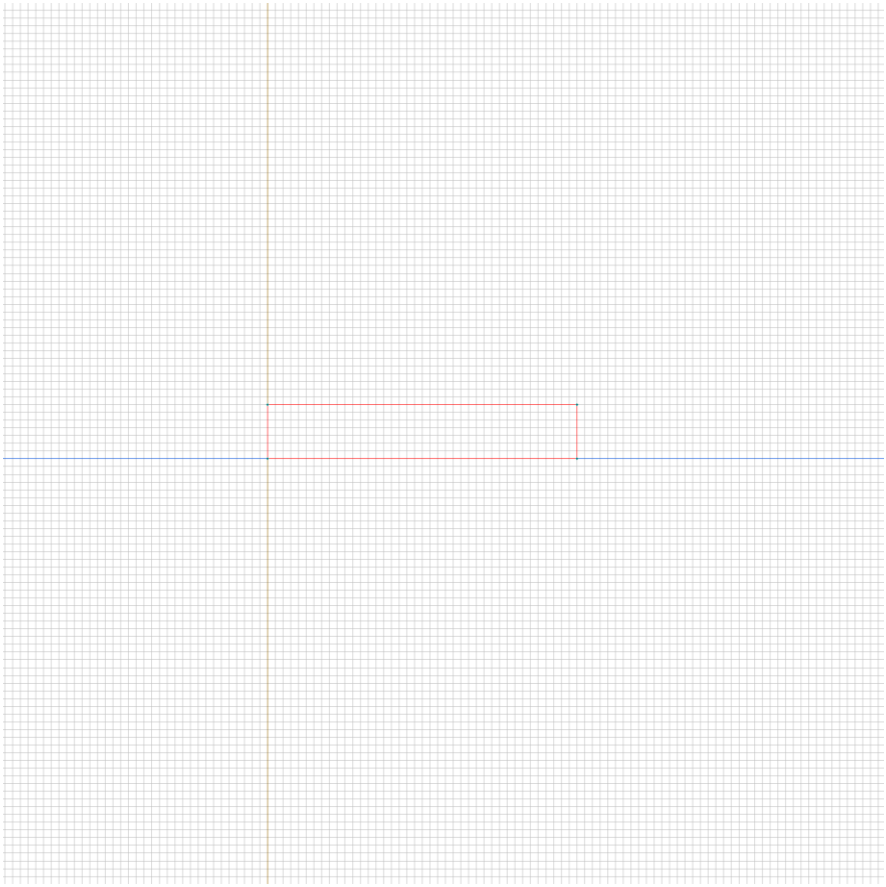
Relative magnetic permeability: mu_x=1, mu_y=1
Electric conductivity: sigma=0 [S/m]
Current density: j=0 [A/m2], phase 0 [deg]
Conductor's connection: in parallel



Labelled objects: edge "V+"

There are (4) objects with this label

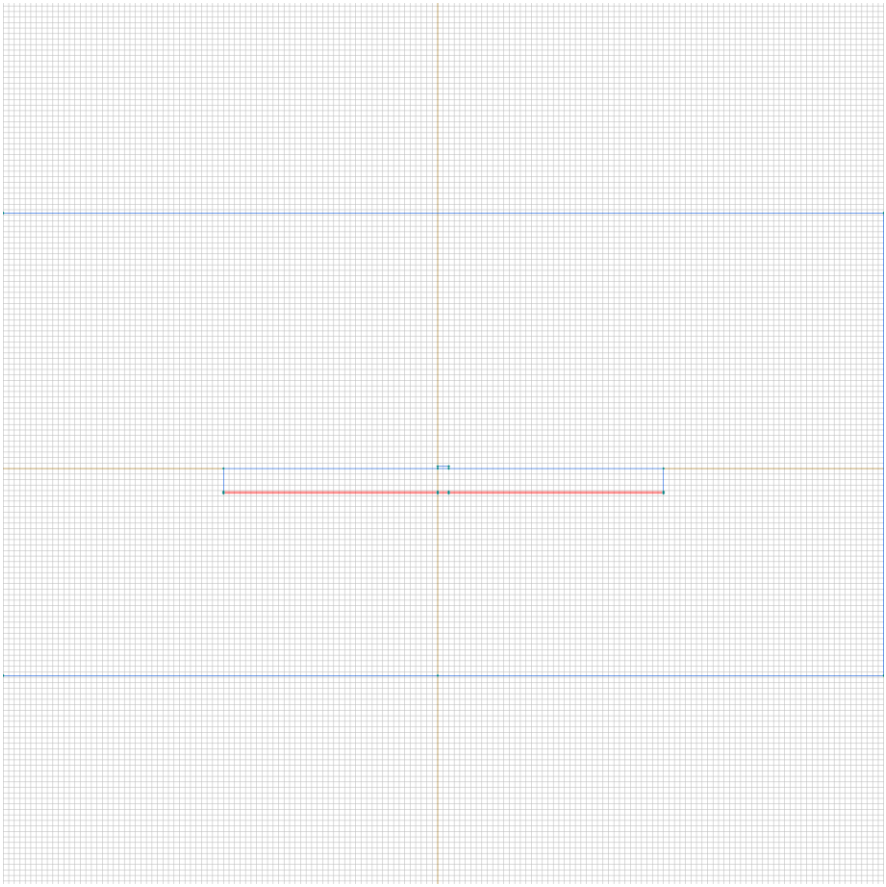
No material data (boundary conditions) are specified



Labelled objects: edge "V0"

There are (8) objects with this label

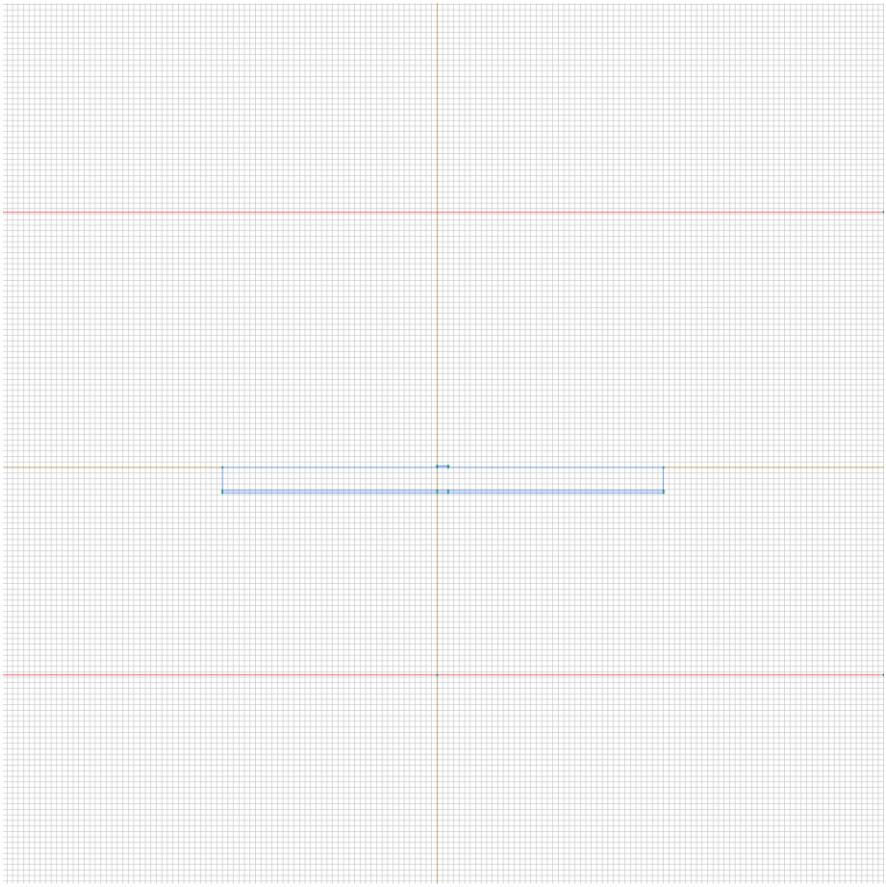
No material data (boundary conditions) are specified



Labelled objects: edge "boundary"

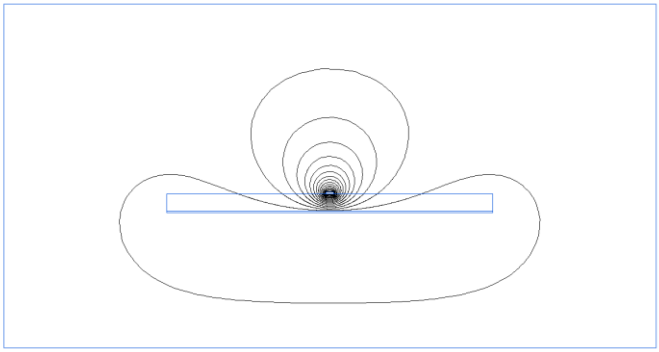
There are (5) objects with this label

Magnetic potential: A=0 [Wb/m], phase 0 [deg]



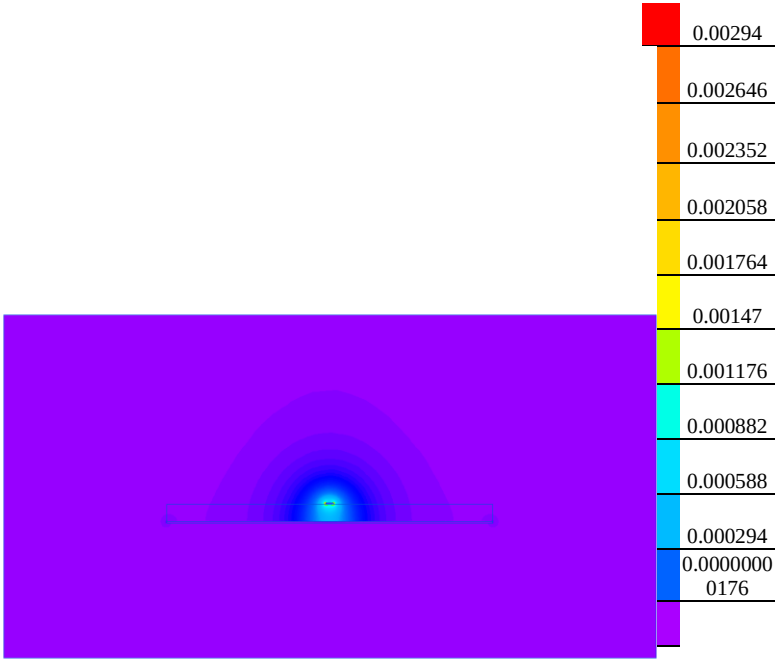
Results

Field lines



Results

Color map of Strength |H| [A/m]



Nonlinear dependencies

No non-linear dependencies are used in this problem data