

Eigenschaften von Element Options: STACKUP - Multi-Layer Substrate Definition

Material Defs. Dielectric Layers Materials EM Layer Mapping Line Type Parameters User Attributes Symbol Rules

Dielectric Definitions: (use for dielectric layers)

Name	Er	TanD	Color	Advanced Properties
Dielectric_1	1.96	0.001		Advanced: Er=1.96, TanD=0.001, Sigma=0, Ur=1, TanM=0

Add Remove Advanced

Conductor Definitions: (use for conductors, vias, and/or top/bottom boundary conditions)

Name	Sigma	Color	Advanced Properties
Copper	5.96e+07		Advanced: Er=1, TanD=0, Sigma=5.96e+07, Ur=1, TanM=0

Add Remove Advanced

Impedance Definitions: (use for conductors, vias, and/or top/bottom boundary conditions)

Name	ResSq	ResF	React	Color
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Add Remove

Defaults: (Air, Perfect Conductor, Approx Open, Inf WG)

Name	Color
Air	No Fill
Perfect Conductor	
Approx Open	No Fill
Inf WG	No Fill

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Dielectric materials in the stackup (thickness specified in mm)

Layer	Thickness	Material Definition	Draw Scale
1	3	Air	1
2	0.05	Dielectric_1	1

Insert Delete

Substrate Name: SUB1

Top Boundary: Approx Open Bottom Boundary: Copper

Side Boundary: Approx Open

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Material properties for conductors, vias, etc... (thickness specified in mm)

Name	Thickness	Material Definition	Etch Angle	Roughness	Solve Inside
Perfect Conductor	0.05	Perfect Conductor	0	0	<input type="checkbox"/>
Trace1	0.000138	Copper	0	0	<input type="checkbox"/>

Insert Delete

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Map of drawing layers to the EM simulator (view in 3D to see layers used by the simulator)

Drawing Layer	EM Layer	Via	Material	Via Extent
Error	[None]			1
EMSymbols	[None]			1
Copper		<input checked="" type="checkbox"/>	Trace1	1
Footprint	[None]			1
Package	[None]			1
Leads	[None]			1
SolderMask	[None]			1
Via		<input checked="" type="checkbox"/>	Perfect C	1
NiCr	[None]			1
Drill	[None]			1
Board	[None]			1
SubcircuitAnnot	[None]			1
Annotation	[None]			1
RatsNest	[None]			1
Default	[None]			1
ErrorHighlight	[None]			1
Highlight	[None]			1
Selection	[None]			1
SubSelection	[None]			1
DrillHoles	[None]			1
DimensionLines	[None]			1
DynamicHighlight	[None]			1
FrozenMarker	[None]			1
AnchorMarker	[None]			1
FirstSelected	[None]			1
EMBoundary	[None]			1

New Map Delete Map

Active EM Mapping Default LPF Name

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Line Type Properties:

Line Type	Material Name	EM Layer
Line1	Trace1	

Missing EM layer=3

Insert Delete Initialize...