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The goal of the analysis is to determine the heat sink geometry and a device setup which allow enough heat dissipation for a given devices and working conditions. The heat sinks can be meshed by many 3D thermal resistances which can involve a complex

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ambient (or case-
heatsink) thermal
resistances, $[R_{JC}$
 $R_{CA}]$ — A row vector $[$
 R_{JC} $R_{CA}]$ of two
thermal resistance
values, represented by
the two Conductive
Heat Transfer
blocks. The first value,
 R_{JC} , is the thermal
resistance between the
junction and the
case. The second value,
 R_{CA} , is the thermal
resistance between
port H and the device

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case.

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Heat sink basically consists of an array of fins attached to a backing plate which is

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in direct contact with the heat dissipating components. Since heat transfer in the backing plate and fins takes place by conduction, the material chosen for making heat sink should have a high thermal conductivity (such as aluminium or copper).

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This code is designed to solve the heat equation in a 2D plate. Using fixed boundary conditions "Dirichlet Conditions" and initial temperature in all nodes, It can solve until reach steady state with tolerance value

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2D Heat Equation Using Finite ... - MATLAB & Simulink

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Figure 1 shows a heat
sink in a sealed
enclosure with the heat
transfer modes
identified. The heat
sink is oriented
vertically in the
enclosure as shown in
figure 1. The heat
generating

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components are assumed to be dispersed evenly through out the enclosure so that

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Matlab. Heat sinks designs are imperative when it comes to the cooling of electronic components in order to maintain them under the maximum allowed operating temperature.

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a rectangular fin
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program has powerful options concerning plots in two and three dimensions. The output temperature field can be imported into MATLAB (MathWorks Inc. $Q =$ Heat transferred. changes heat by convection.

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technique overcome
the excess heat
generating problem of
using nanoelectronics
which is expected to
power the heat sink for
1 ounce copper the
heat dissipation
asymptotically
approaches 1 square
inch in other words
having a pcb heat sink
greater than 1 inch
doesn t do ...

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```
MATLAB RESULT: %%  
Model Setup for Heat  
Sink. thermalmodel =  
createpde  
( 'thermal','transient');  
importGeometry (ther  
malmodel,'heatsink.stl'  
); pdegplot (thermalmo  
del,'FaceLabel','on','Fac  
eAlpha',0.5); axis  
equal. %% mesh.  
generateMesh (thermal  
model,'Hmax',0.4);  
figure;
```

Unexpected Result

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Heat sink size calculations can be daunting tasks for any one who does not have much experience in thermal analysis. There are commercially available heat sink design software that would allow you to design and analyze a heat sink to meet the thermal requirements of the device(s) to be

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cooled.

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