



MIDAS

MESH FREE

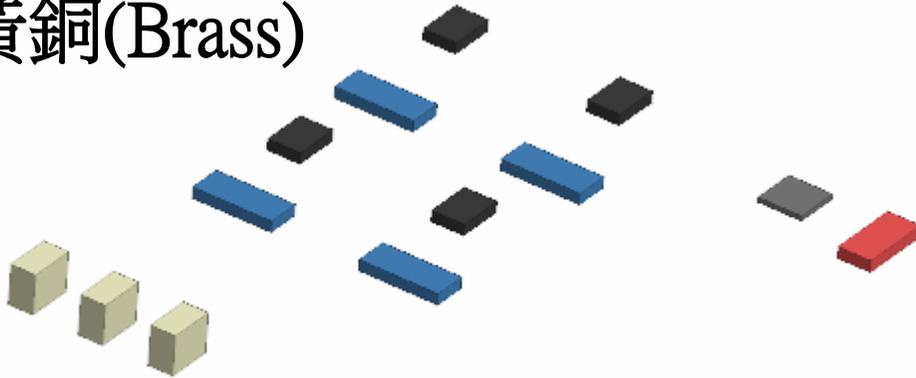
熱分析

EX2.PCB板

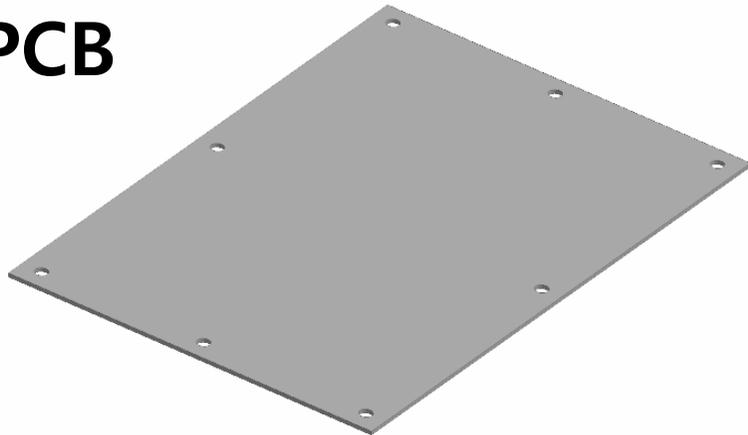
Simple, but Everything.

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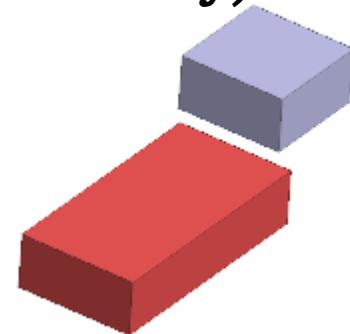
黃銅(Brass)



PCB



鋁(6061 Alloy)





邊界條件

載荷

初始溫度

名稱

初始溫度

溫度  [°C]

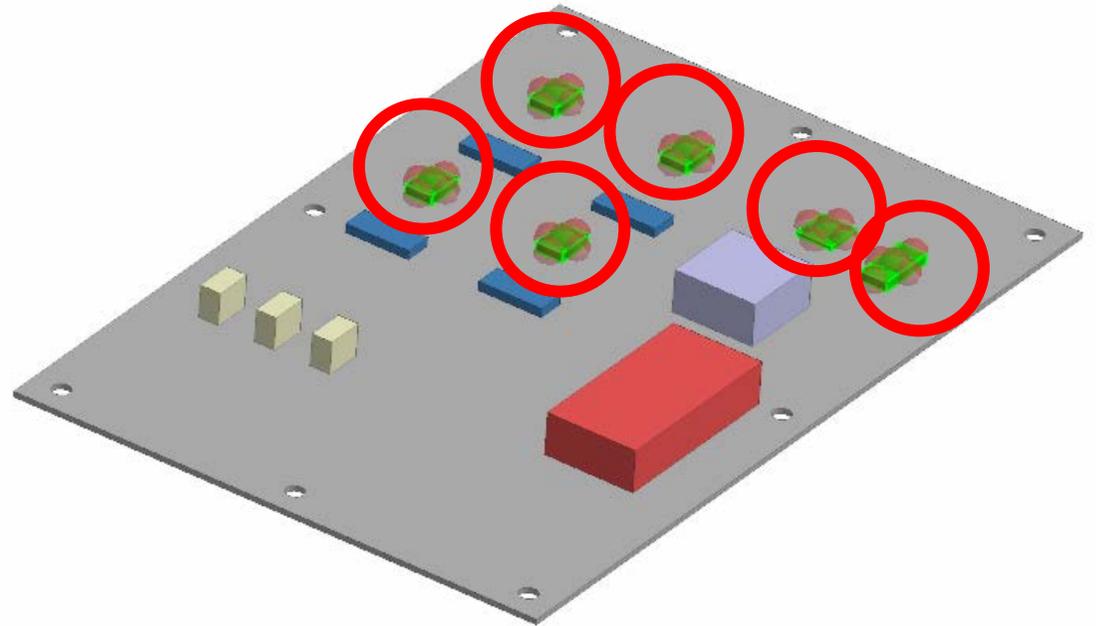
註:初始溫度是針對整個系統,無法各別指定物件的初始溫度

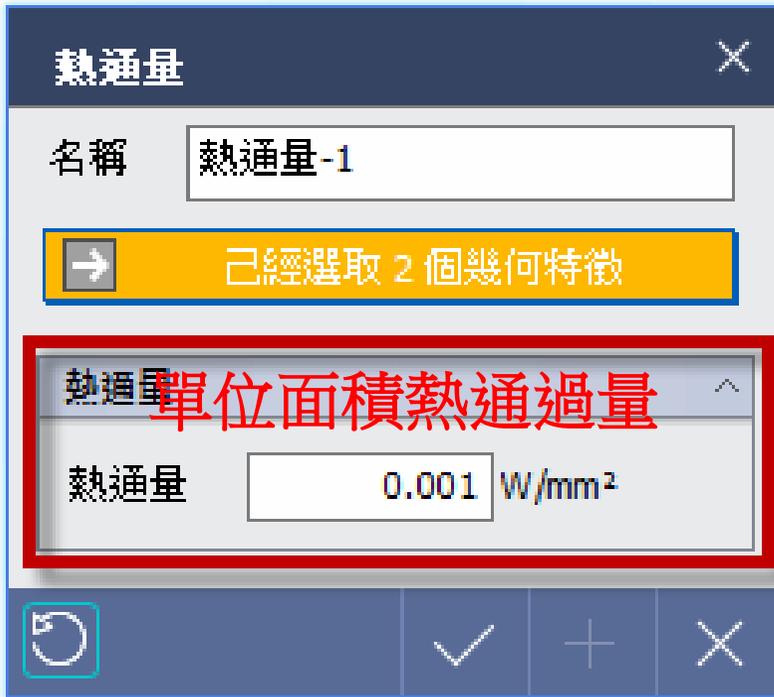


可定義在面特徵或實體特徵固定溫度

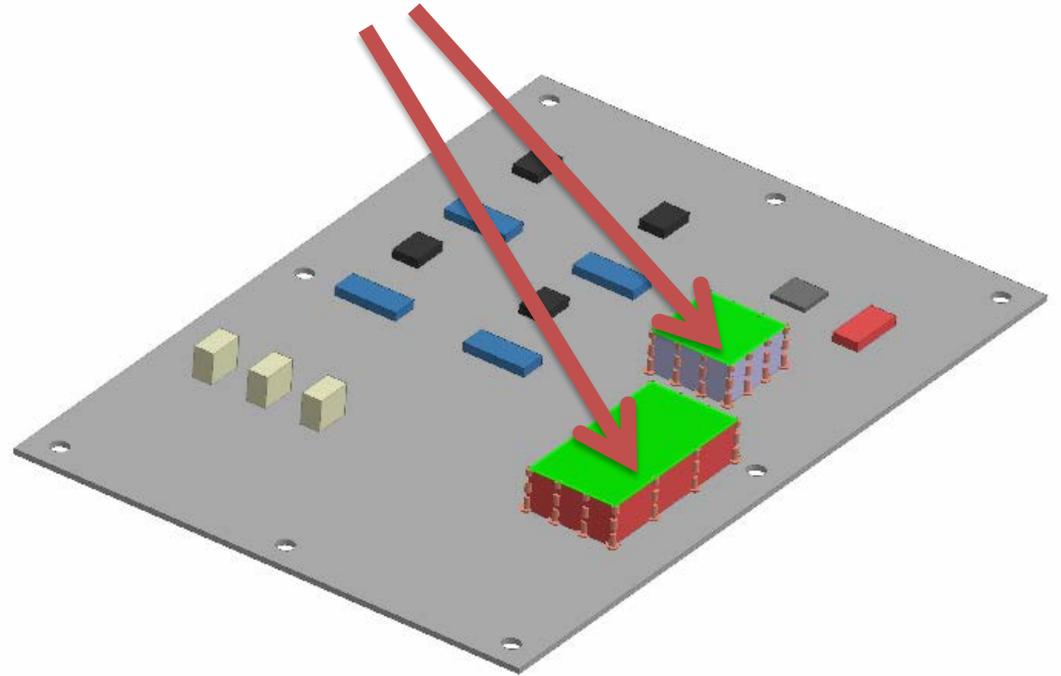


固定溫度:50°C





單位面積熱通過量  
0.001 Watt/mm<sup>2</sup>

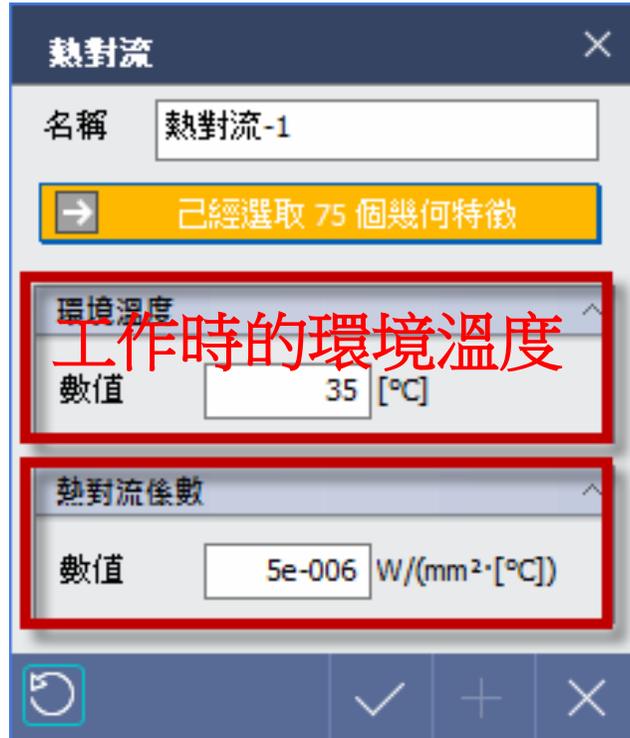




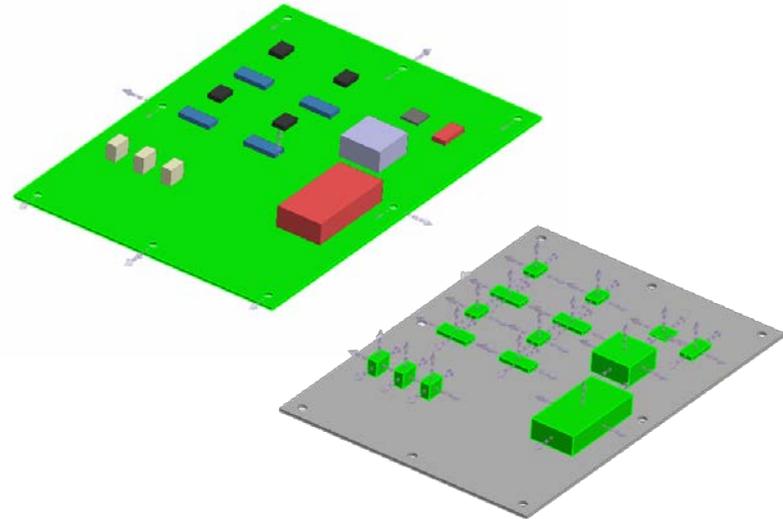
邊界條件 載荷

## 空氣熱對流係數

1. 自然對流:  $3 \times 10^{-6} \sim 12 \times 10^{-6}$  ( $\text{W}/\text{mm}^2 \cdot ^\circ\text{C}$ )
2. 強制對流:  $10 \times 10^{-6} \sim 100 \times 10^{-6}$  ( $\text{W}/\text{mm}^2 \cdot ^\circ\text{C}$ )



## 施加在空氣與結構接觸特徵

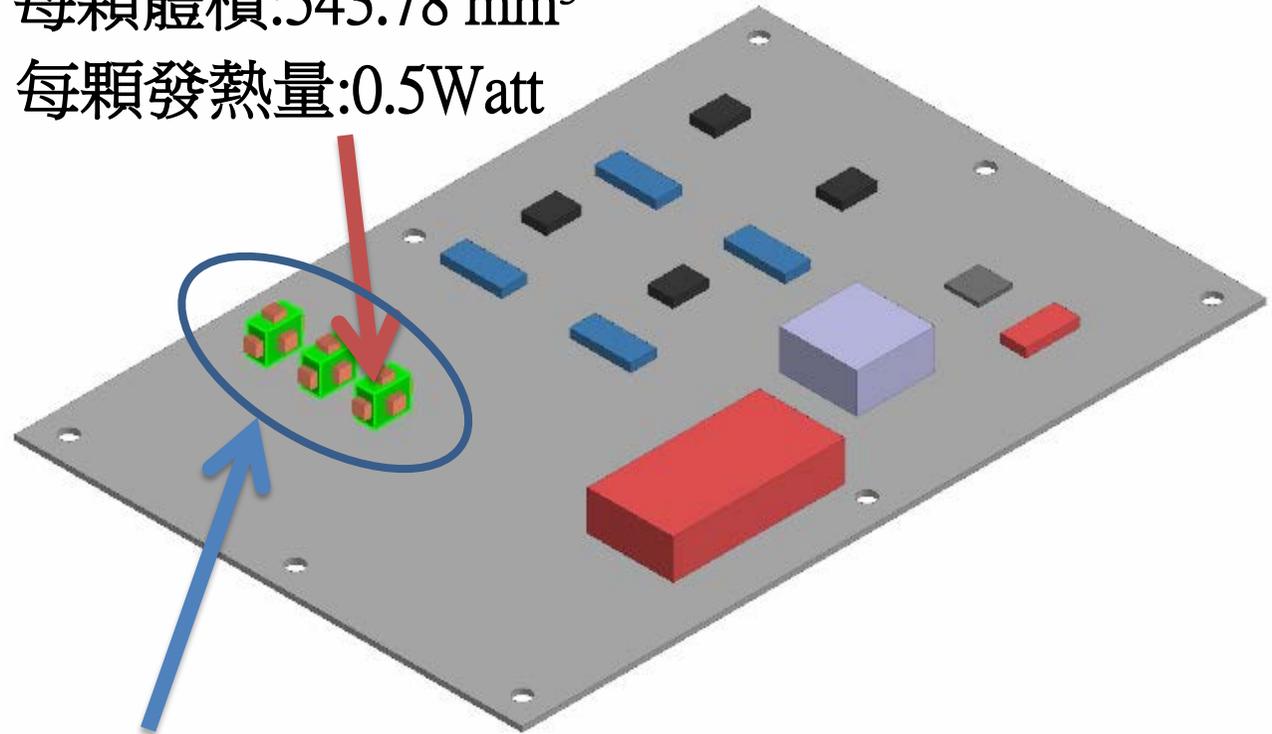


註:幾何間的接觸面不用考慮空氣熱對流

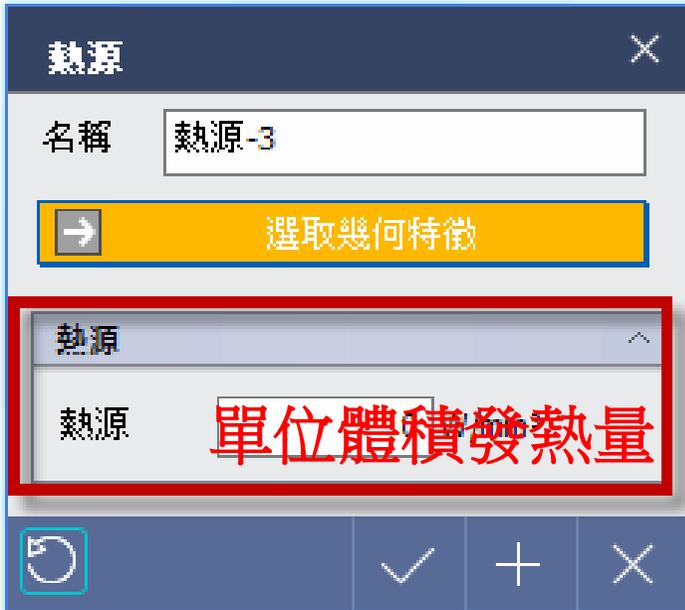


邊界條件 載荷

每顆體積:543.78 mm<sup>3</sup>  
 每顆發熱量:0.5Watt



熱源-單位體積發熱量  
 0.00092Watt/mm<sup>3</sup>



# 執行分析

