



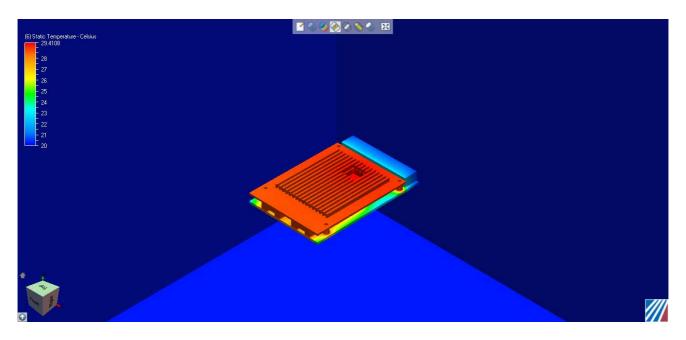
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ADC Heatsink Chassis Thermal Analysis

System: 1000 x 1000 x 1000 mm, 2 Fans on either side of the system to push air through it.

Scenario 1: ADC Heatsink as designed by Phil



Component Thermal Summary:

PCB

Minimum Temperature = 20.505806 Celsius Maximum Temperature = 29.409340 Celsius Volume Averaged Temperature = 26.018040 Celsius

ADC CHIP

Minimum Temperature = 29.232372 Celsius Maximum Temperature = 29.410778 Celsius Volume Averaged Temperature = 29.362877 Celsius

ADC_HEATSINK_SOLID

SOUTH

Minimum Temperature = 28.594135 Celsius Maximum Temperature = 29.398947 Celsius Volume Averaged Temperature = 28.837357 Celsius

Volume

Minimum Temperature = 20.000000 Celsius Maximum Temperature = 29.410778 Celsius Volume Averaged Temperature = 20.224962 Celsius

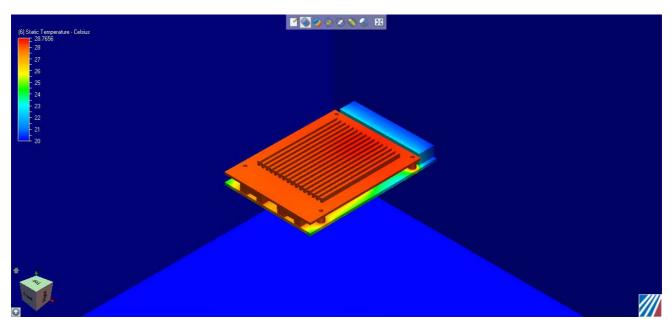








Scenario 2: ADC with Solid Centre:



ADC_PCB

Minimum Temperature = 20.366674 Celsius Maximum Temperature = 28.649109 Celsius Volume Averaged Temperature = 25.628586 Celsius

ADC_CHIP

Minimum Temperature = 28.522627 Celsius Maximum Temperature = 28.649109 Celsius Volume Averaged Temperature = 28.596199 Celsius

ADC_HEATSINK_SOLID_MOD

Minimum Temperature = 27.949848 Celsius Maximum Temperature = 28.623741 Celsius Volume Averaged Temperature = 28.183914 Celsius

Volume

Minimum Temperature = 20.000000 Celsius Maximum Temperature = 28.765600 Celsius Volume Averaged Temperature = 20.077747 Celsius

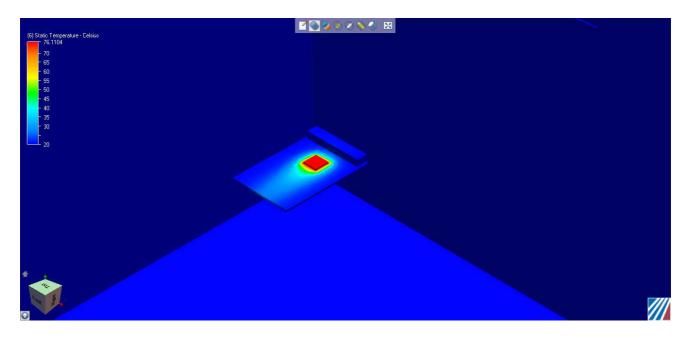








Scenario 3: No Heatsink



ADC_PCB

Minimum Temperature = 20.228691 Celsius Maximum Temperature = 76.109299 Celsius Volume Averaged Temperature = 27.934515 Celsius

ADC_CHIP

Minimum Temperature = 75.511337 Celsius Maximum Temperature = 76.110352 Celsius Volume Averaged Temperature = 75.976463 Celsius

Volume

Minimum Temperature = 20.000000 Celsius Maximum Temperature = 76.110352 Celsius Volume Averaged Temperature = 20.217672 Celsius



