

SimOps Thermal Analysis

Job: L_bracket
Date: 2025-12-28 13:17

SIMULATION STATUS: CRITICAL FAILURE

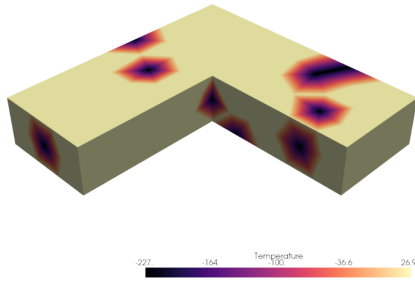
Metric	Value
Strategy Used	MedFi_Robust
Max Temperature	26.9 °C
Min Temperature	-227.0 °C
Range (Delta T)	253.8 °C
Mesh Elements	689
Solve Time	0.80 s

Thermal Distribution Maps

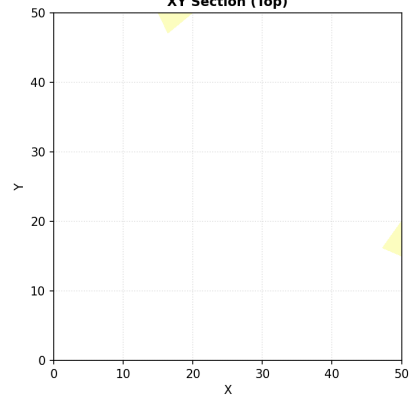
Sim Results - L bracket

Material: Aluminum | Ambient: 20°C | Source: 100°C | $h=25.0 \text{ W/m}^2\text{K}$

3D Isometric View (Surface)



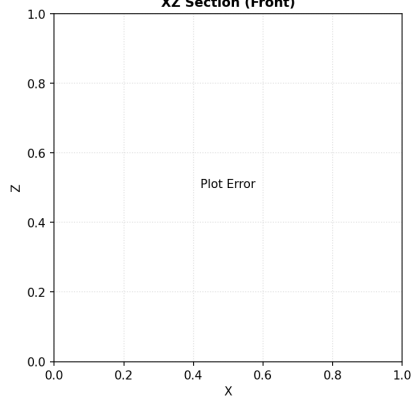
XY Section (Top)



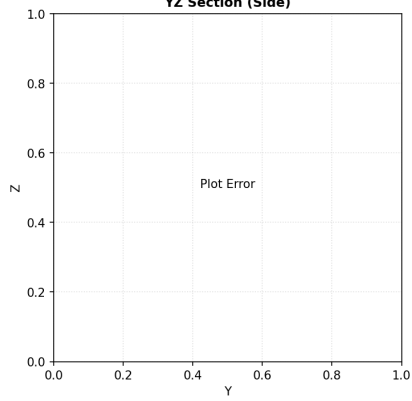
Temperature (°C)

Temperature (°C)

XZ Section (Front)



YZ Section (Side)



Solver: CalculiX v2.21 (FEM) | Mesh: 689 Elements | Solve: 0.8s | Converged (dT < 0.1°C) | Flux: -22.5W

Transient Response: L_bracket

