



## R-Tools Simulation - Design Output Summary

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**Project:** Aelph  
**Simulation Date:** 2009-03-07 01:39:25

### Thermal Design Details

**Heatsink type:** Extrusion  
**Part number:** Extrusion: 9013  
**Weight:** 3.58069 kg  
**Heatsink dimensions:** 176.53 mm wide x 254.0 mm long x 66.39 mm high  
**Material:** Aluminum  
**Finish:** B

### Environment

**Ambient Temperature:** 72.0 F  
**Altitude:** 300.0 ft

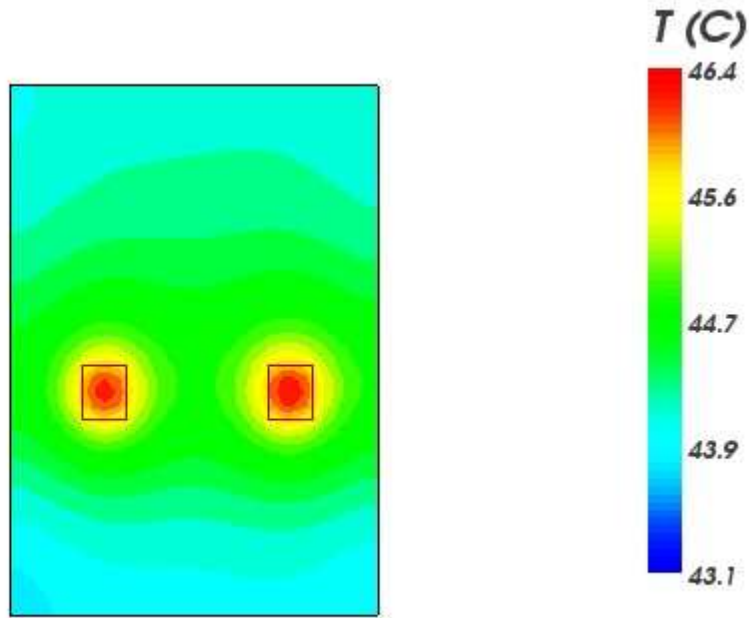
### Thermal Design Details

| Source Names | %sc  | Power  | Tsink-avg | Temperature |       |           |
|--------------|------|--------|-----------|-------------|-------|-----------|
|              |      |        |           | Tsink-max   | Tcase | Tjunction |
|              |      |        | C         | C           | C     | C         |
| source3      | 1.2% | 18.0 W | 46.1      | 46.4        | 46.4  | 74.7      |
| source2      | 1.2% | 18.0 W | 46.1      | 46.3        | 46.3  | 74.7      |

### Hydraulic Design Details

**Type of Flow:** Natural convection  
**Fluid:** Air  
**Total Pressure Drop:** 5.891 Pa  
**Exit Temperature:** 43.4 C

## Baseplate Temperature Profile



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