R-Theta Thermal Solutions Inc.

R-Tools Simulation - Design Output Summary

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Project: Tunnel JX
Simulation Date: 2012-02-25 17:46:20

Thermal Design Details

Heatsink type: Extrusion
Part number: Extrusion: 66434
Weight: 2.56191 kg
Heatsink dimensions: 243.94 mm wide x 300.0 mm long x 49.02 mm high
Material: Aluminum
Finish: B

Environment

Ambient Temperature: 25.0 C
Altitude: 0.0 m

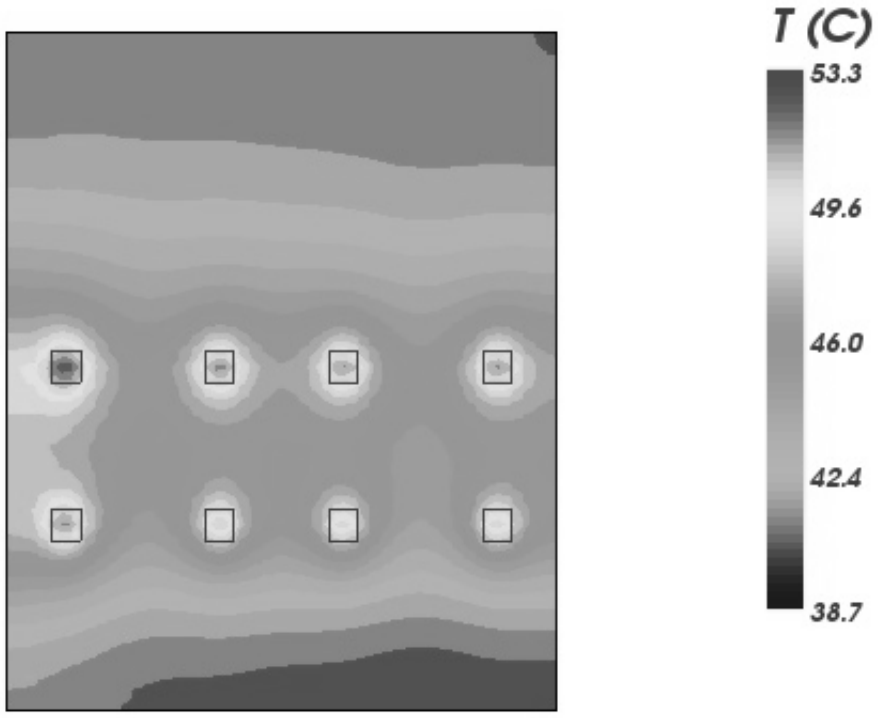
Thermal Design Details

			Temperature			
Source Names	%sc	Power	Tsink-avg	Tsink-max	Tcase	Tjunction
			C	C	C	C
Q6	0.2%	30.0 W	50.1	50.9	50.9	123.7
Q2	0.2%	30.0 W	50.5	51.2	51.2	123.9
Q8	0.2%	30.0 W	51.4	52.1	52.1	124.8
Q7	0.2%	30.0 W	51.2	52.0	52.0	124.8
Q3	0.2%	30.0 W	52.7	53.3	53.3	126.0
Q4	0.2%	30.0 W	51.8	52.3	52.3	125.1
Q5	0.2%	30.0 W	49.9	50.9	50.9	123.6
Q1	0.2%	30.0 W	51.6	52.3	52.3	125.0

Hydraulic Design Details

Type of Flow: Fixed velocity (push)
Fluid: Air
Flow rate: 35.0 cfm
Total Pressure Drop: 7.680 Pa
Exit Temperature: 37.2 C

Baseplate Temperature Profile



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