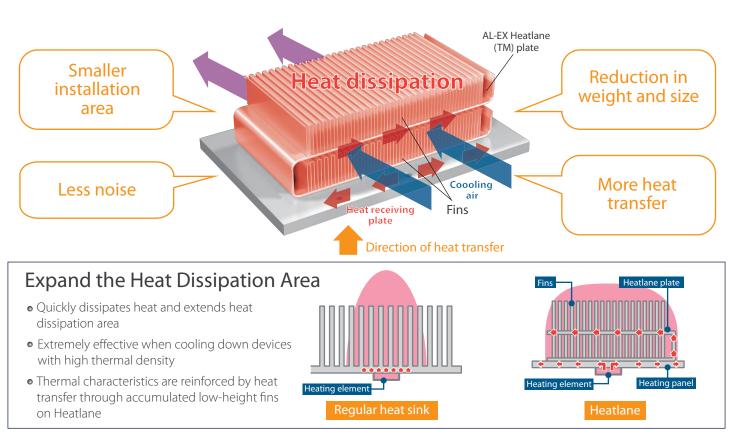


Patent, trademark registered

Application Example of HEATLANE®

Case Study for Mizutani Electric Ind. Co., Ltd.

Designed to offer the best performance in the limited space



Evaluation example

Model shape used:

200 width x 130 length x 70 height, 8.2 base thickness (mm)

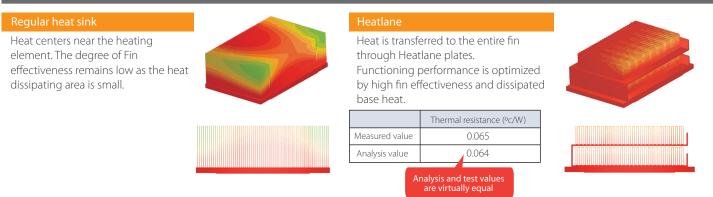
Conditions - Heating element: 140 x 130 (mm), 500 (W) - 2 m/s front velocity

Types	Modeling of fins (mm)	Thermal resistance (°C/W)	Mass (g)
Heatlane	0.5 (thickness) x 110 (length) x 28 (height), 56 fins x 2 layers	0.064	1130
Regular heat sink	0.5 (thickness) x 130L (length) x 61.8 (height) x 66 fins	0.088	1300

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MIZUTANI

CFD analysis application



Customer Comments

Accurate thermal analysis is crucial for satisfying engineers' various needs today. scSTREAM and HeatDesigner are the very rare tools that enable us to simulate our designs in a way as close to actual measurements as possible. We are happy with Cradle's software and hope to continuously use it for more thermal analyses.