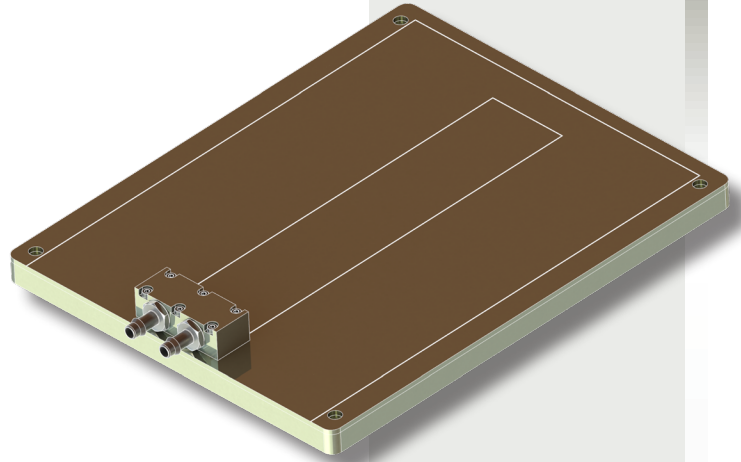


HIGH PERFORMANCE NEXT GENERATION LIQUID COLD PLATE DATA SHEET

Wakefield Thermal's vacuum-brazed liquid cold plates are created by machining two metal plates with interior channels and fin structures (zipper fin), which are then carefully sealed together inside a vacuum chamber. A filler metal with a lower melting point is melted into the joints of the cold plate via capillary action. The vacuum created in the chamber removes the atmosphere, thus preventing the forming of oxides that would normally form during the brazing process. Without the vacuum, a flux would be required to protect the joints as they are formed. The vacuum-brazing process creates an exceptionally strong joint and does not require any brazing flux. The vacuum-brazed cold plate has unparalleled flexibility in its design, as it is not limited by the bending radius limitations of Wakefield Thermal's standard tube and plate cold plates.

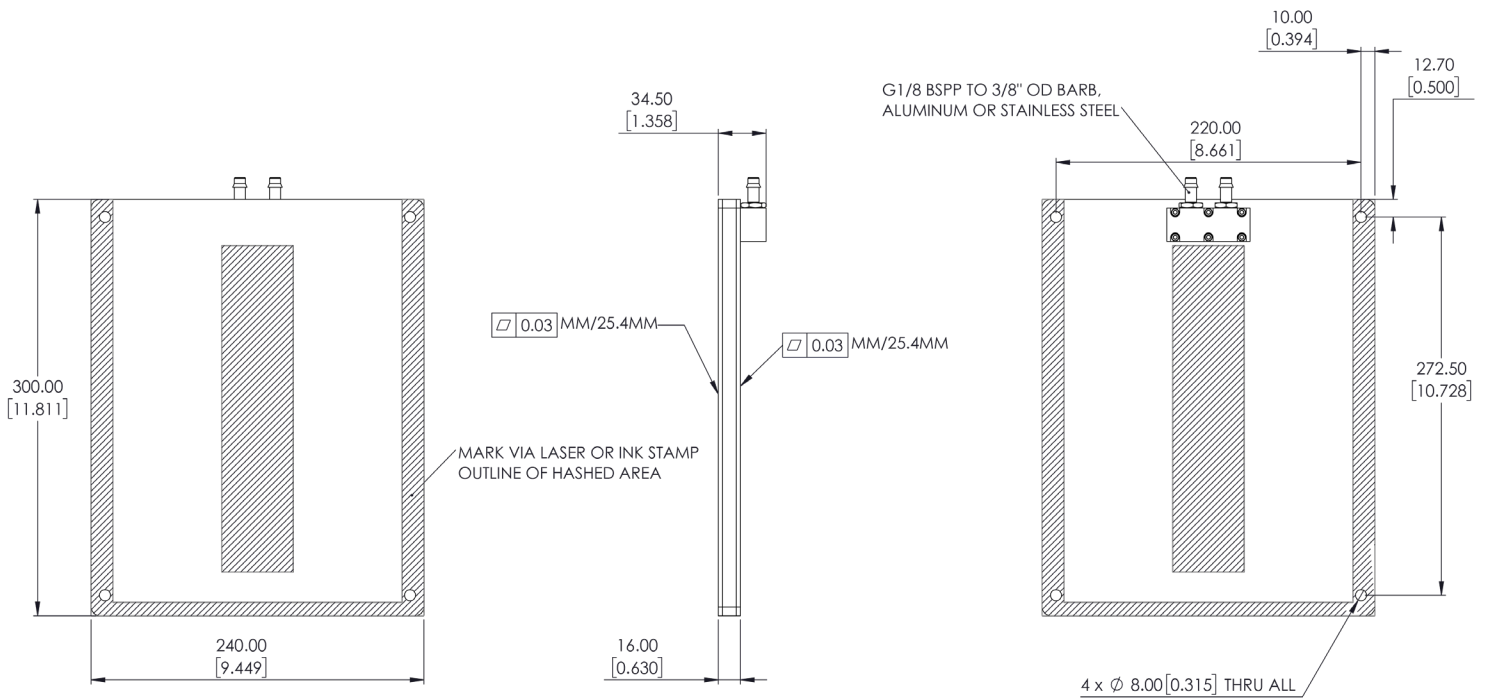


FEATURES & BENEFITS

- Compatible with the industry's most common power module devices (SiC & GaN, IGBT's, SCRs)
- High thermal performance
- Lightweight design for critical applications
- Vacuum brazed construction ensures metal-to-metal flux-free joint
- Ideal low pressure drops for medium and low flow rates
- Leak-free (pressure tested) and corrosion-free construction
- Fully customizable to fit different size footprints

APPLICATIONS

- EV/ Battery Cooling
- Inverters
- Aerospace & Defense
- UPS Power Supplies
- Data Center/Server
- High Power Optics
- Medical
- Instrumentation

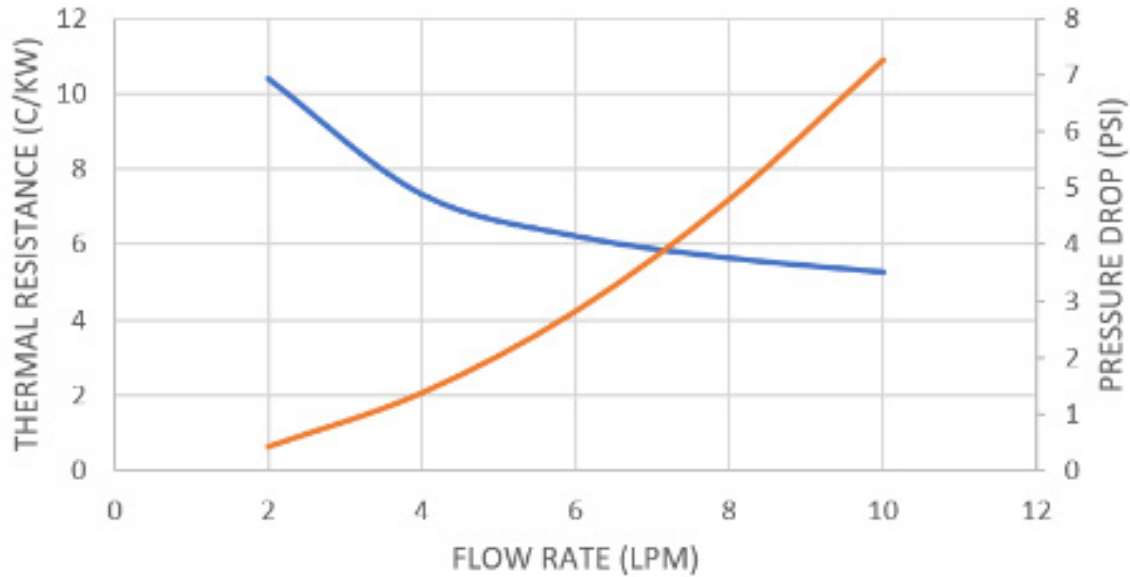


NOTES:

1. HATCHED AREAS SIGNIFY ACCEPTABLE DRILL LOCATIONS
2. FINISH: CLEAR CHROMATE

For other
component
items,
**CONTACT
WAKEFIELD**

THERMAL CURVES



PLEASE NOTE:

1. Thermal performance is defined as average plate temperature minus incoming fluid temperature divided by the power in kilowatts

2. Fluid is 50/50 EGW



COOLVATION
Innovative Thermal Solutions

5 STEP THERMAL ENGINEERING GUIDE From Concept To Cooling

COOLVATION provides thermal management engineering services to improve products' thermal performance while applying cost effective solutions to eliminate unnecessary manufacturing costs. COOLVATION is a seamless resource extension for our customers' thermal & mechanical engineering teams from ideation to lab testing.

