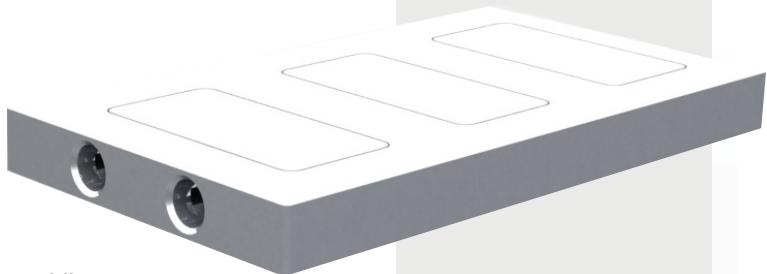


POWER MODULE COOLERS

FRiction STir WELDED COLD PLATES

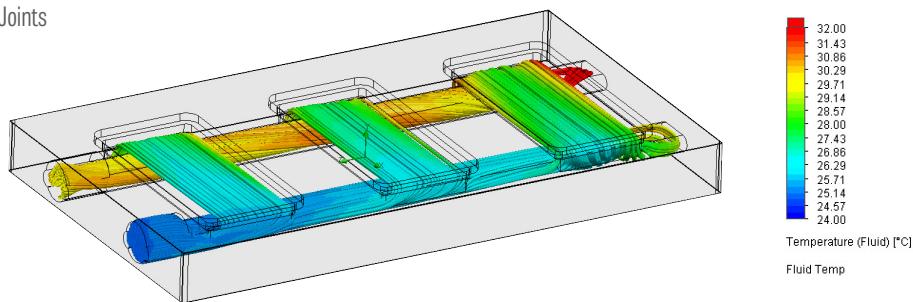
DATA SHEET



Wakefield Thermal produces a standard Liquid Cold Plate using Friction Stir Welding (FSW). Friction Stir Welding, a solid-state welding method, seamlessly joins two metal pieces without melting them. Leveraging Wakefield Thermal's inhouse Friction Stir Welding capabilities, its products surpass traditional techniques in Cold Plate manufacturing.

FEATURES & BENEFITS

- Compatibility with Dissimilar Metals
- Narrow Heat-Affected Zone
- Environmental Friendliness
- Solid-State Welding
- High Strength Joints
- Fatigue Resistance
- Versatility
- Dimensional Stability
- Cost Efficiency

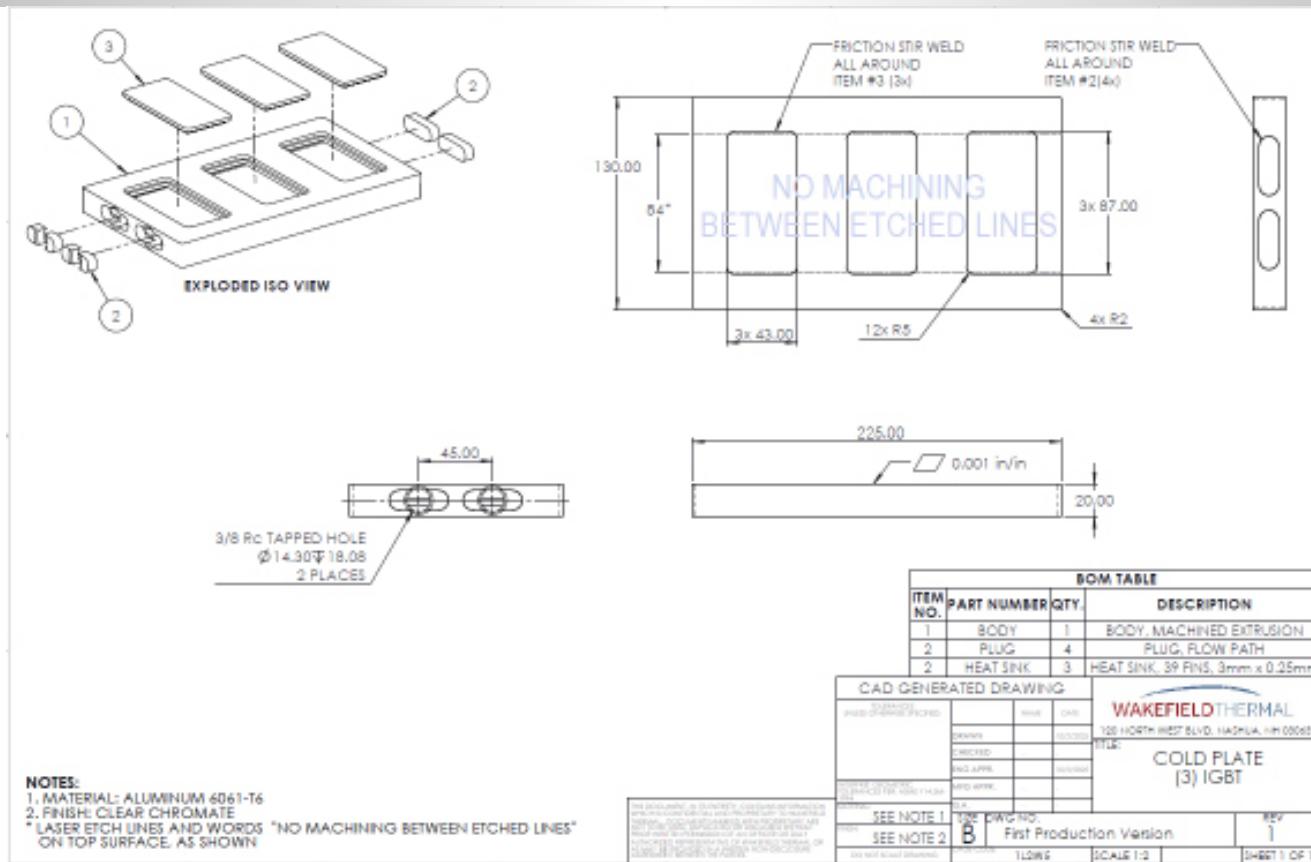


Wakefield Part Number	Description	Overall Dimensions
132814	Friction Stir Welded Cold Plate - 3 IGBT	8.86" L x 5.12" W x 0.79" H

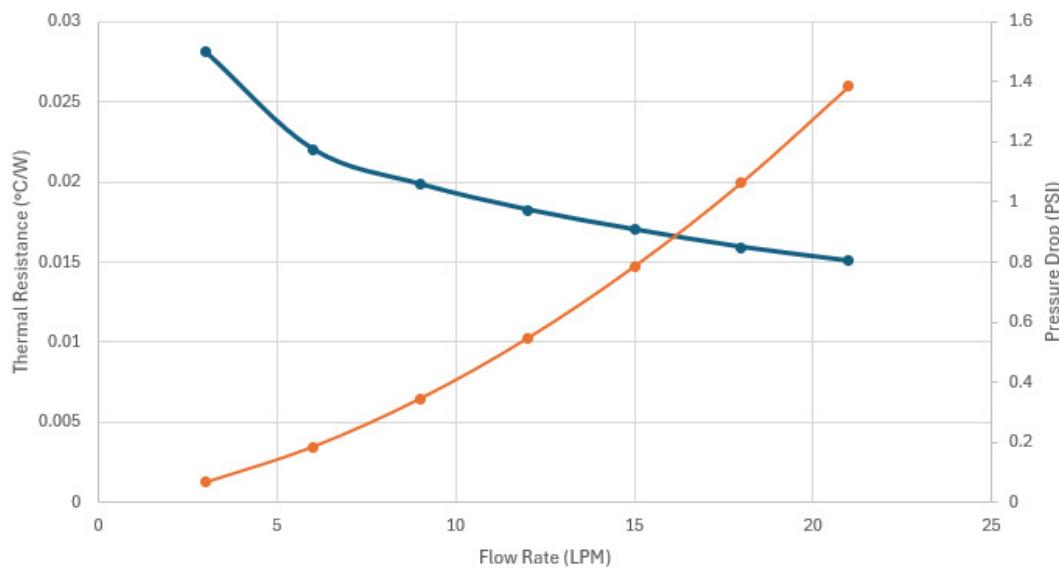
Power Module (IGBT) Cross-references:

- Infineon CoolSiC
- Infineon FF2MR12KM1
- Infineon FF2MR12KM1P
- Infineon FF3MR12KM1
- Infineon FF6MR12KM1
- Infineon FF6MR12KM1P
- Microchip MSCSM120AM02CT6LIAG
- Microchip MSCSM70AM025CT6LIAG
- Microsemi SP6LI
- Mitsubishi CMH200DU-24NFH
- Mitsubishi CMH300DU-24NFH
- Semikron SEMITRANS 3
- Semikron SKM125KD12SC
- Semikron SKM260MB170SCH17
- Semikron SKM350MB120SCH15
- Semikron SKM350MB120SCH17
- Semikron SKM500MB120SC
- Wolfspeed CAB760M12HM3
- Wolfspeed CAS120M12BM2
- Wolfspeed CAS300M12BM2
- Wolfspeed CAS300M17BM2
- Wolfspeed CAS325M12HM2
- Wolfspeed CAS480M12HM3
- Wolfspeed WAB300M12BM3
- Wolfspeed WAB400M12BM3

132814

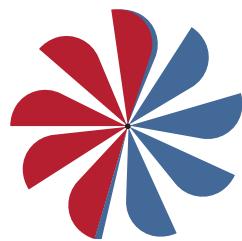


THERMAL CURVES



Thermal performance is measured as max plate temp - inlet fluid temp / heat dissipation

2



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.

