

RoHS

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Liquid-cooled Cold Plates

High Contact

HiContactTM assemblies (patent pending) are a costeffective method of cooling high heat concentration semiconductor devices without the expense, weight, or handling problems associated with cold plates fabricated completely from copper. Aavid-Thermalloy's HiContact cooling technology ensures minimum contact resistance between the heat producing device and the cooling fluid. The tube utilized in the HiContact assembly minimizes the number of thermal interface layers between the cooling liquid and the heat producing devices. Liquid-cooled cold plates offer optimum thermal management for high power IGBT modules. They are ideal for use in stationary or mobile applications requiring high power dissipation and low thermal resistance - welding, plasma, UPS/power supplies, and motor controls in traction and electric vehicles.



Features

- Copper tube in direct contact with the heated devices to handle high heat concentrations, reducing semiconductor temperature rise
- Aluminum mounting plate with copper cooling coil for low cost, high value - lower weight than all copper and easily modified/machined
- High conductivity epoxy filler between tube and plate
- Mounting surface machined smooth and flat for reduced resistance at mounting interface, maximizing heat transfer to cooling media and insuring copper and aluminum and coplanar

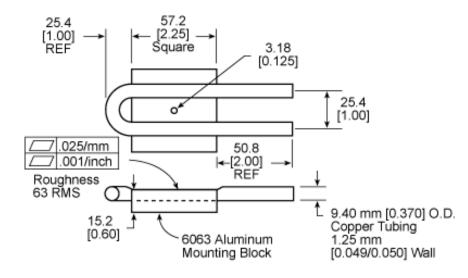
- Minimum mounting plate thickness
- Heat transferred laterally and assembly locked together
- Minimized weight outside the primary thermal path specifications

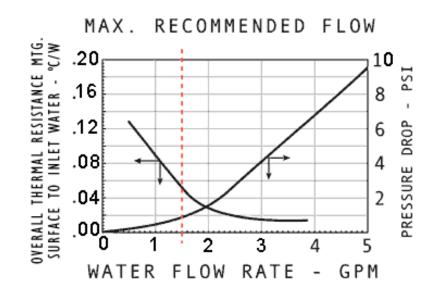
2 Pass Models

Plate: 6063-T5 aluminumTube: 1.3 mm (.05") wall, copperOptions: Stainless steel tube can be substituted for copper

Part Number	Finish	RoHS	PCN	
416401U00000G	Unfinished	RoHS √ Compliant	Product Change Notice	





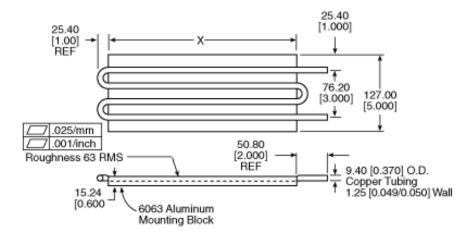


4 Pass Models

Plate: 6063-T5 Aluminum Tube: 0.05 wall 3/8 dia copper Options: as required

Part Number	"X" Dim	Finish	RoHS	PCN			
416501U00000G	6.00"	Unfinished	RoHS √ Compliant	Product Change Notice			
416601U00000G	12.00"	Unfinished	RoHS √ Compliant	Product Change Notice			
416501C00000	6.00"	Gold Chromate	RoHS Compliance PENDING	NA			
416601C00000	12.00"	Gold Chromate	RoHS Compliance PENDING	NA			
416501S00000	6.00"	AavGard	RoHS Compliance PENDING	NA			
416601S00000	12.00"	AavGard	RoHS Compliance PENDING	NA			





MAX RECOMMENDED FLOW WATER FLOW RATE LITERS/MIN

