

Our Products

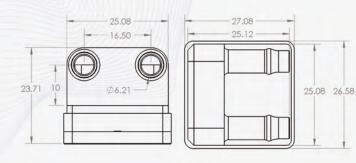
M1 Cold Plate - 25mm x 25mm

Microchannel Liquid Cooling

The Mikros M1 cold plate is optimized for high heat flux microchips with low thermal resistance and pressure drop. Its 25×25 mm footprint cools standard microchip sizes and can be used to evaluate Mikros technology for custom applications.





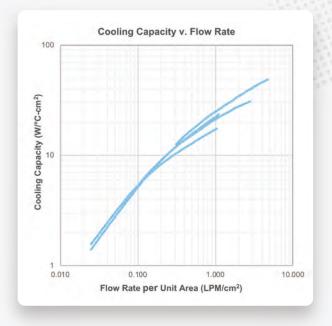




Mikros M1 Cooling Advantage

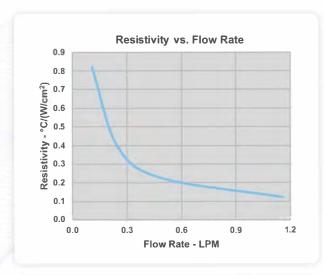
- **High Cooling Capacity** with M1 core R* as low as 0.045 C-cm2/W. Others as low as 0.02 C-cm2/W
- **Low Pressure Drop** near 1 psi at moderate flow rates
- High Cooling Value per Watt-dissipated
- **High Reliability** with no cooling capacity decrease over 15 years of endurance testing
- **Tailored Cooling** with 0 deg temp gradients or preferential cooling areas in custom applications

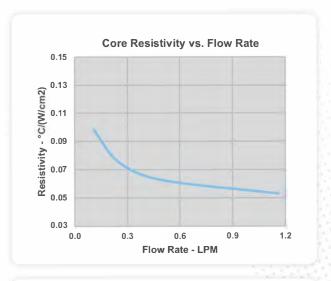
To Order: Info@mikros.net

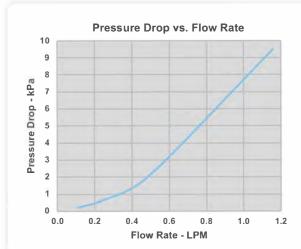


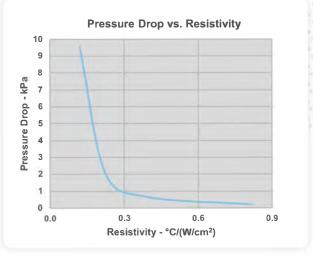


M1 Performance Characteristics with Water









$$R^* = Resistivity \equiv \frac{T_c - T_{in}}{q / A}$$

$$R^* = R_{core}^* + R_{flow}^*$$

$$R_{flow}^* = \frac{A}{\rho \cdot c_p \cdot Q}$$

 T_c = cold plate surface temp

 T_{in} = fluid inlet temp

A = active area - 25 mm x 25 mm

q = heat flow

 R_{core}^* = core resistivity

 R_{flow}^* = flow sensible heating resistivity

Q = water flow rate ρ = density of water

 $c_{\mathbb{R}}$ = specific heat of water