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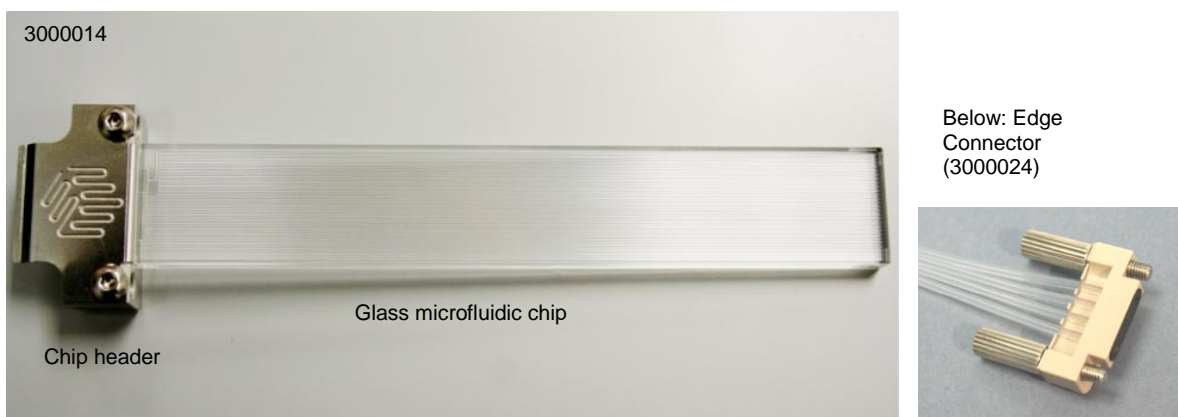
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INFORMATION SHEET

Part name	Mitos Gas-Liquid Reactor Chip with header	Part number	3200062
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Description

The Gas-Liquid Reactor Chip is a glass microfluidic device designed for a range of applications including contacting immiscible fluids, mixing, microreactions and droplet formation. The chip is supplied with a chip header (as shown below). The header allows connection to the Mitos Edge Connector (part number 3000024).

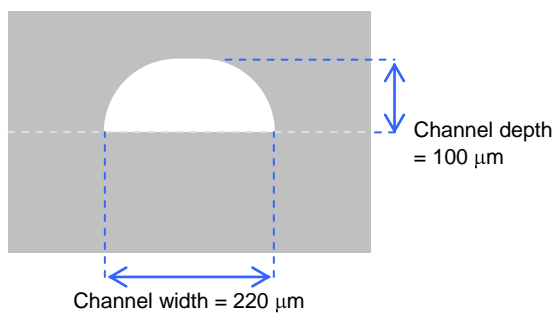


Benefits

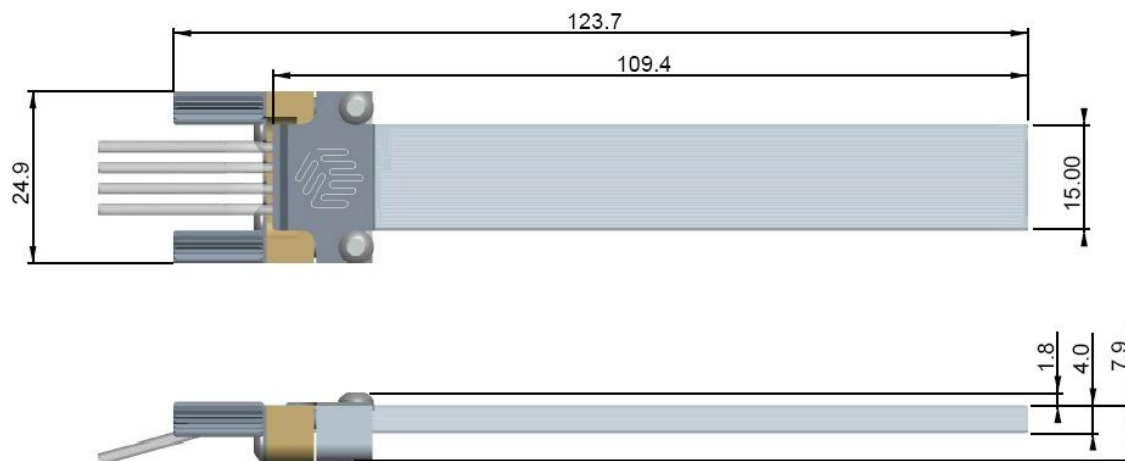
- Long channel provides large surface area for gas-liquid contacting
- Wide temperature and pressure range
- Excellent chemical compatibility
- High visibility (excellent access for optics)
- Extremely smooth channel surface
- Low dead volume connector
- Quick connect/disconnect

	Chip Specification	Value
1	Number of inputs	2
2	Number of outputs	1
3	Internal channel cross-section	100 μm x 220 μm (depth x width)
4	Channel length after Y-junction	5000 mm (feed channels = 8 mm)
5	Volume of channel after Y-junction	90 μl
6	Back pressure with 100 $\mu\text{l}/\text{min}$ flow (water)	9 Bar
7	Surface roughness of channels (R_a)	5 nm
8	Chip size	90.0 mm x 15.0 mm
9	Chip top layer thickness	2.0 mm
10	Chip base layer thickness	2.0 mm
11	Operating pressure	30 Bar with edge connector (higher with other connection methods)
12	Operating temperature	250° C with edge connector (higher with other connection methods)
13	Material	Glass
14	Fabrication process	HF etching and thermal bonding

Channel cross-sectional profile



Chip geometry



Optical transmission

