CPP1–1000–ZM micro pump

Circular Peristaltic Pump for high pump rates

**Intended use:** Pumping of aqueous fluids and gases

**Weight:** 5.3 g (without connector)

**Size:** 9.5 x 11.2 x 40.5 mm

**Flow rate range:** 1 to 1700 µl/min

**Operation:** Bi-directional

**Outlet pressure:** Up to 2.0 bar overpressure

**Self-priming:** < -0.9 bar

**Typical current:** 45 mA @ 3.0 V

**Maximum voltage:** ± 5 V DC

**Tube material:** Silicone (ISO 10993-1, USP class 1-6)

**Tube dimension:** 0.5 mm inner / 1.3 mm outer diameter

**Lifetime, typical:** > 600 operating hours @ 3.0 V

**restriction when pumping gases:** continuous operation of max. 1.5 hours

**Available connectors:** JST-SH female, Pin-head male or female

**Part number:** MP.CPP1.999.DWBM.50.JSF.168.SI01

**Typical performance**

**Typical Pump Rate CPP1-1000-ZM (measured with air)**

Linear fit: Pump rate = A*Voltage

A = 345.3 ± 2.2

Reduced RSS: 0.4

**Continuous pumping**

- Linear fit: 1.1 - 3.3 V
- Pumped with 1.1 V

**Typical Very Low Pump Rate CPP1-1000-ZM (measured with air)**

Pulsed pumping with 1.1 V

Linear fit:

Pump rate = A*Duty cycle

A = 3.48 ± 0.01

Reduced RSS: 0.07

The pump rate can deviate by 10 % from pump to pump

**Available connectors**

- JST-SH female, Pin-head male or female

**Part number**

- MP.CPP1.999.DWBM.50.JSF.168.SI01

**Disclaimer:** Evaluation Product For Professionals To Be Used Solely For Research And Development Purposes!

Not For Medical And Diagnostic Use. Not To Be Used On Humans. For More Information Contact IST AG.