



Micro Pumps are used to transport liquids and gases in applications that require a combination of high efficiency, low power consumption and small footprint. Examples include fuel transport in compact fuel cells, drug delivery for medical equipment and chemical transport in inspection and analysis instrument.

MicroBase's patent-pending, piezoelectric-element actuated, micro diaphragm pump is a state-of-the-art, high- energy-efficiency device with built-in control circuitry that outperforms rivals in flow rates and power consumption with similar weights and sizes.

MicroBase also provides application-specific micro pumps that meet customers' special requirements.

Features:

- Built-in Control and Power Circuit
- Low Power Consumption (<75mW)
- PWM Controllable
- High Flowrates
- Small Sizes
- High Suction Pressures
- High Particle Tolerance (30 micron)
- Suitable for Water, Methanol and Mixtures.
- Suitable for Fluids with Gas/Liquid Mixtures.

Applications:

- Direct Methanol Fuel Cell (DMFC)
- Fluid Transport
- Inspection and Analysis Instrument

Specifications

Type	Piezoelectric Diaphragm Pump
Model No.	MBP2115BD
Dimensions	21.3 mm × 21.3 mm × 8.0 mm (W × D × H)
Max. Flow Rate	15 ml/min (5 Vdc input)
(with no back pressure)	
Driving Voltage	3 ~ 5 Vdc
Current Consumption	15 mA / 5 Vdc input
Power Consumption	75 mW / 5 Vdc input
Driving Frequency	Variable
Max. Back Pressure	25 kPa
Max. Suction Pressure	-10 kPa
Inlet / Outlet	∅3.0 mm / ∅3.0 mm
Particle Tolerance	< 30um
Weight	5.5 g

Flowrate(typical) v.s. Input voltage

