



## Data Sheet Inkjet Head D3000



PRECISION**CORE**

### 1. PrecisionCore Technology

- a. MEMS manufacturing and thin film piezo element can realize high precision and high density. Contributes to compact, high speed, high quality, and high image quality.
- b. Precision made of Epson unique MEMS nozzles and an ink flow path ensure the perfectly round ink droplets are placed accurately and consistently.

### 2. Support for grey scale

Epson's unique Variable Sized Droplet Technology (VSDT) delivers smooth gradation by freely control to eject the droplet volume.

### 3. High resolution and high productivity

With 1200dpi resolution and high driving frequency, the D3000 enables digital printers to deliver image quality and print speeds comparable to those of existing analog printers.

The printhead can be used either in single colour 1200dpi mode or with two colours at 600-dpi resolution

### 4. Nozzle level recirculation

Ink is circulated at the nozzle level to prevent potential issues caused by evaporation or sedimentation near the nozzles and achieves stable printing.

### 5. Easy assembly

There is no need to adjust the position of heads in multi-head arrays. This significantly reduces the amount of time it takes to assemble and replace the heads.

### 6. Easy use

The durable printhead structure uses a material which allows confidence during assembly or replacement.

### 7. High durability

PrecisionCore print head has proven high durability and extended service life by Epson's industrial printers.

## ■ Product Specifications

Product name		D3000-A1R
Ink type		Aqueous
Type		PrecisionCore MicroTFP printhead
Width x Depth x Height		78.2 x 71.3 x 100.4 mm
Weight		298 g
Number of nozzle		2952
Nozzle pitch / nozzle row		1/333 inch
Nozzle rows		6 rows
Nozzle Resolution		1200 npi (1colour) / 600npi (2colours)
Max. number of colour inks		1 colour / 2colours
Effective print width		61.2 mm (2.41 inches)
Droplet ejection performance	Binary	3.5 pl or 5pl at 63 kHz
	3 levels greyscale	3,5.5 pl at 63 kHz
Viscosity range		5-6 mPa·s
Ink recirculation		Nozzle level recirculation
Internal heater		Not available

## ■ Product size (mm)



## ■ External dimensions (mm)

