

Samba® printhead technology provides the speed, versatility, and reliability suitable for a broad range of demanding graphics and specialty applications. The Samba printhead leverages the accuracy and precision of Silicon MEMS (Si-MEMS) processing with the reliability and life of sputtered PZT in an ingenious parallelogram shape to deliver breathtaking image quality at near analog production speeds.

## Unique Si-MEMS Design

- Superb drop placement accuracy and uniformity for best in class image quality
- Broad fluid compatibility (UV, Aqueous, Solvent)
- Long life provided by sputtered PZT
- Broad ink latitude from robust non-wetting coating on nozzle plate
- Wide range of drop sizes

### Optimized for Single Pass

- Compact in-line stitching for any length print bar provided by parallelogram shape
- High frequency with high duty cycle for challenging high flux applications
- Head design optimized for high standoffs
- 600 or 1200 dpi modes
- Grayscale for robust high image quality printing
- Fast priming and reduced maintenance cycles from multi-level ink recirculation

## **Proven Performance in Many Applications**

Samba is the proven leader in high speed applications such as Commercial Print, Textile, Label, Packaging, and 3D printing. Now the Samba family is expanding to include the G5L, bringing with it larger native drop size for single pass applications demanding even higher ink coverage.

FUJIFILM Dimatix continues to build upon its long history of printhead design with exceptional customer service and over 1000 patents since 1985.























Largest drop size
Viscosity range
Temperature sensor

# **Technical Specifications**

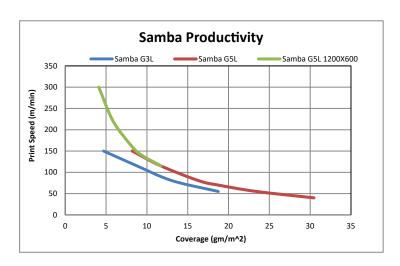


Parameter
Number of addressable Jets per module
Print width
Native resolution
Firing frequency
Compatible fluids
Printhead heating
Inkjet operating temperature range
Nozzle plate technology
PZT technology
Max productivity
Native drop size

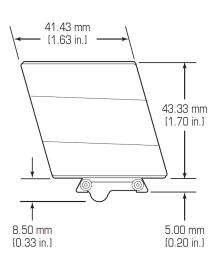
Samba G3L
2048
43 mm (1.7 in)
1200 dpi (600 redundant)
Over 100 kHz
UV, AQ, Latex, Solvents, Other
Fluid thermal transfer
<i>Up to 60° C (140° F)</i>
Silicon MEMS w/ non wetting coating
MEMS sputtered PZT
360 ng-kHz
2.4 pL
10 pL
4 - 8 cPs
Built in thermistor

Samba G5L
2048
43 mm (1.7 in)
1200 dpi (600 redundant)
Over 100 kHz
AQ, Latex, Solvents, Other
Fluid thermal transfer
Up to 60° C (140° F)
Silicon MEMS w/ non wetting coating
MEMS sputtered PZT
450 ng-kHz
3.5 pL
13 pL
5 - 9 cPs
Built in thermistor

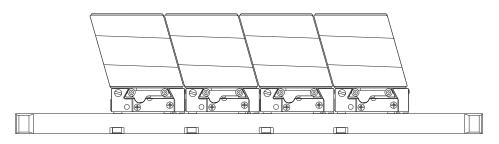
### **Productivity**



## Physical Characteristics







Product data presented above are for guideline purposes only. For design and engineering work using this product, please contact Dimatix Technical Support for the appropriate Product Manual containing full Product Specifications.





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