

가 , * 1, 1, 1 ,

Design, Fabrication and Test of a Mixer with Recirculation Zones

*J.K. Lee¹, Y. D. Kim¹, S.J. Kwon¹
¹ Division. Of Aerospace Eng., KAIST

Key words : micro mixer, recirculation zone, photosensitive glass

1. 가 , 가 MEMS 가

ml/h ~ 1/h

가

가

가 10 PDMS

(Lab-on-a-chip)

SU-8

가

fig. 1

가

2 × 4

가 , 8

150 μm

500 μm

230 μm

2.

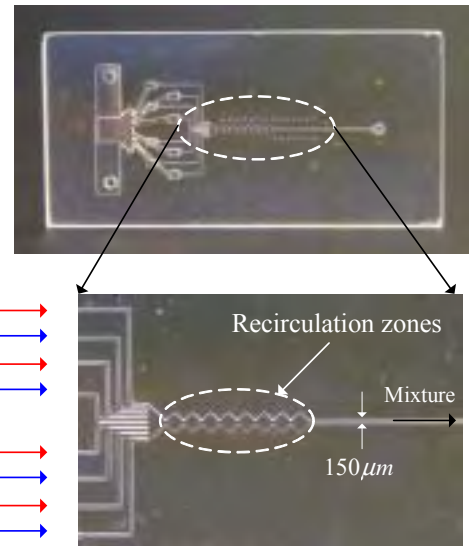


Fig.1 Recirculation micro mixer made by etching and bonding processes of photosensitive glass

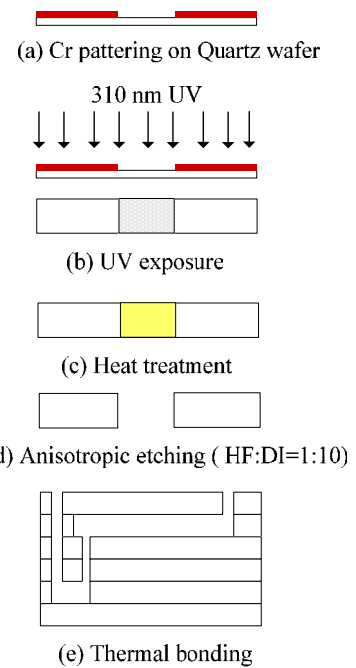


Fig.2 Process sequences of the fabrication of photosensitive glass

Fluent

5.85 ml/h , 10⁻⁹ m²/s
 585 ml/h

10 1000

QUICK

