



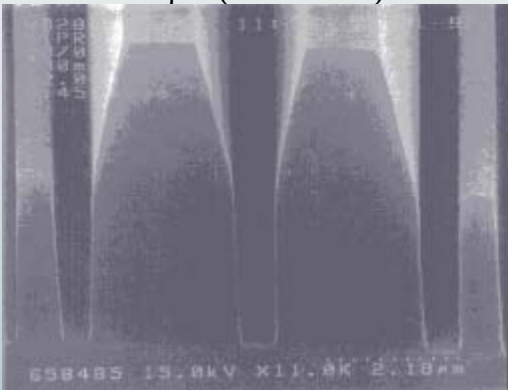
- Application
 - Trench Processing
 - Coil Processing
- Advantages
 - Super High Resolution (0.38 μ m space at 6 μ m Thickness)
 - Vertical Profile
 - Heat Resistance
 - Scum Free
- Standard Process
 - Spin Coating of SIPR-9740
 - (6 μ m^t at 3000rpm)
 - Prebake of Photoresist layer
 - (100°C x 120 sec on Hot-Plate)
 - Exposure
 - (By I-line or G-line stepper)
 - LAE (Leave After Exposure)
 - (0~20min according to the film thickness)
 - PEB (Post Exposure Backing)
 - (110°C x 90 sec on Hot-Plate)
 - Develop
 - (SSFD-238(TMAH=2.38%))
 - (50sec x 3 times (at 5 μ m^t))

Prebake: $100^{\circ}\text{C} \times 120 \text{ sec}$
Exposure: Varied (NSR-1755i7A)
Focus= $+1.0\mu\text{m}$

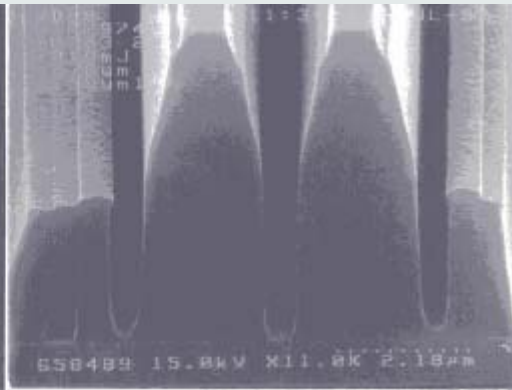
LAE: 15 min.
PEB: $110^{\circ}\text{C} \times 90 \text{ sec}$
Develop: 50sec x 4 times (SSFD-238)

Resolution (iso-Space)

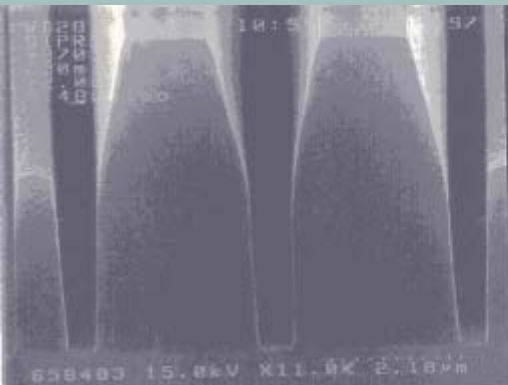
$0.48\mu\text{m}$ ($850\text{mJ}/\text{cm}^2$)



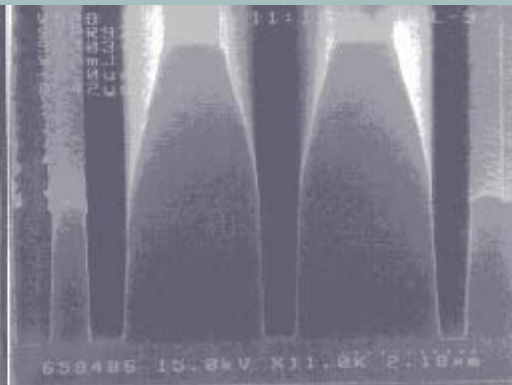
$0.42\mu\text{m}$ ($930\text{mJ}/\text{cm}^2$)



$0.45\mu\text{m}$ ($930\text{mJ}/\text{cm}^2$)



$0.38\mu\text{m}$ ($930\text{mJ}/\text{cm}^2$)



Prebake: 100°C x 120 sec

LAE: 20 min.

Exposure: 1000mJ/cm² (NSR-1755i7A)

PEB: 110°C x 90 sec

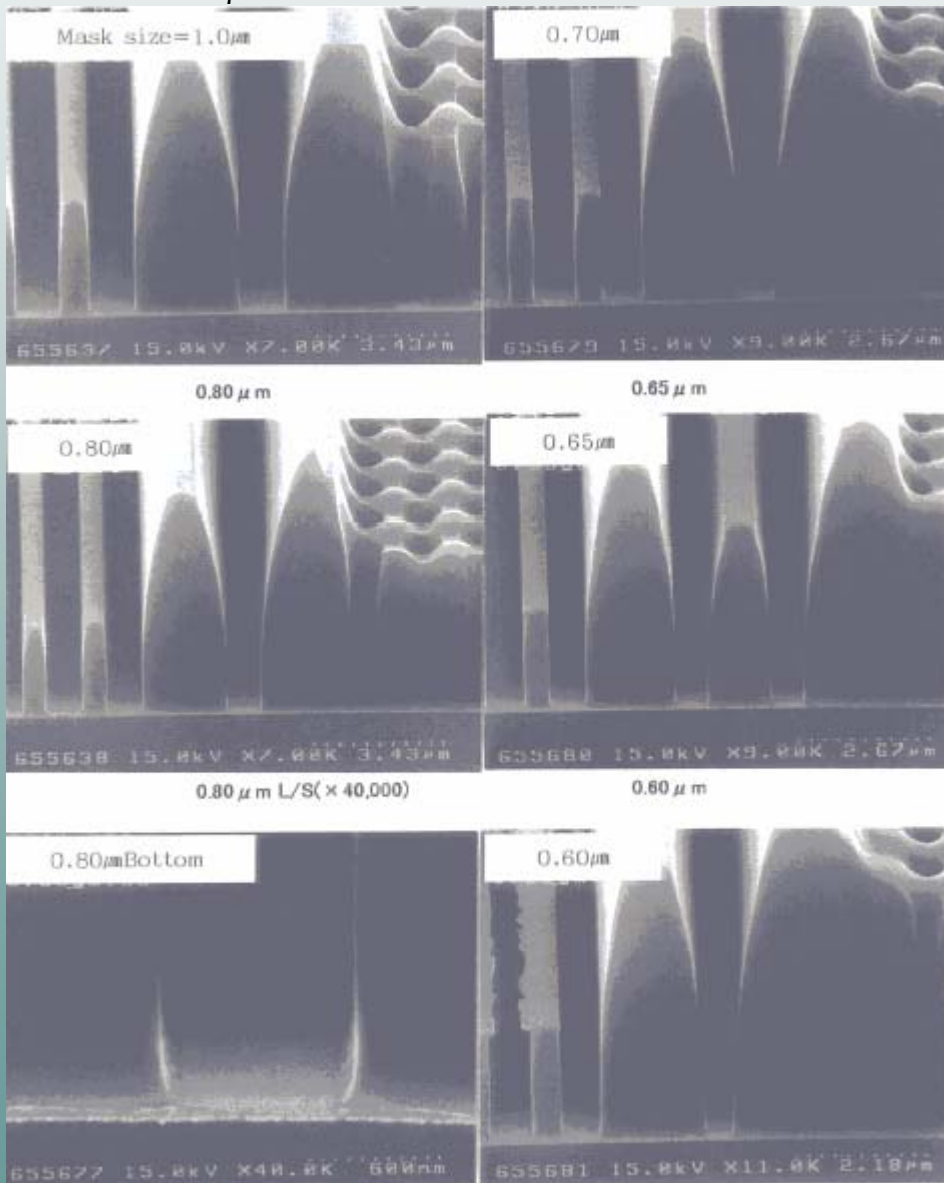
Focus= +3.0 μ m

Develop: 50sec x 5 times (SSFD-238)

Resolution (iso-Space)

1.0 μ m

0.70 μ m



Prebake: 100°C x 30 min (Clean oven)
Exposure: 1000mJ/cm² (NSR-1755i7A)
Focus= +3.0μm

LAE: 20 min.
PEB: 110°C x 90 sec
Develop: 50sec x 5 times (SSFD-238)

Resolution (iso-Space)

0.80 μm

0.65μm

