

振動ジャイロのエピポリSi構造
ST and ADI accelerometers
power Nintendo controller

SiO₂上にLPCVDで核形成
(650) 125nm厚

減圧エピタキシャル成長炉を用いた厚いpoly-Si成長 (1000) 縦カラム状で低応力(3MPa)、堆積速度大 (0.4 – 0.7 μ m / min)

低応力厚膜用のエピタキシャルポリSi

(M.Kirsten, B.Wenk (Fraunhofer-Inst.),
F.Ericson, J.A.Schweitz (Uppsala Univ.)
Thin Solid Films, 259 (1995) pp.181-187)

Siエピ層



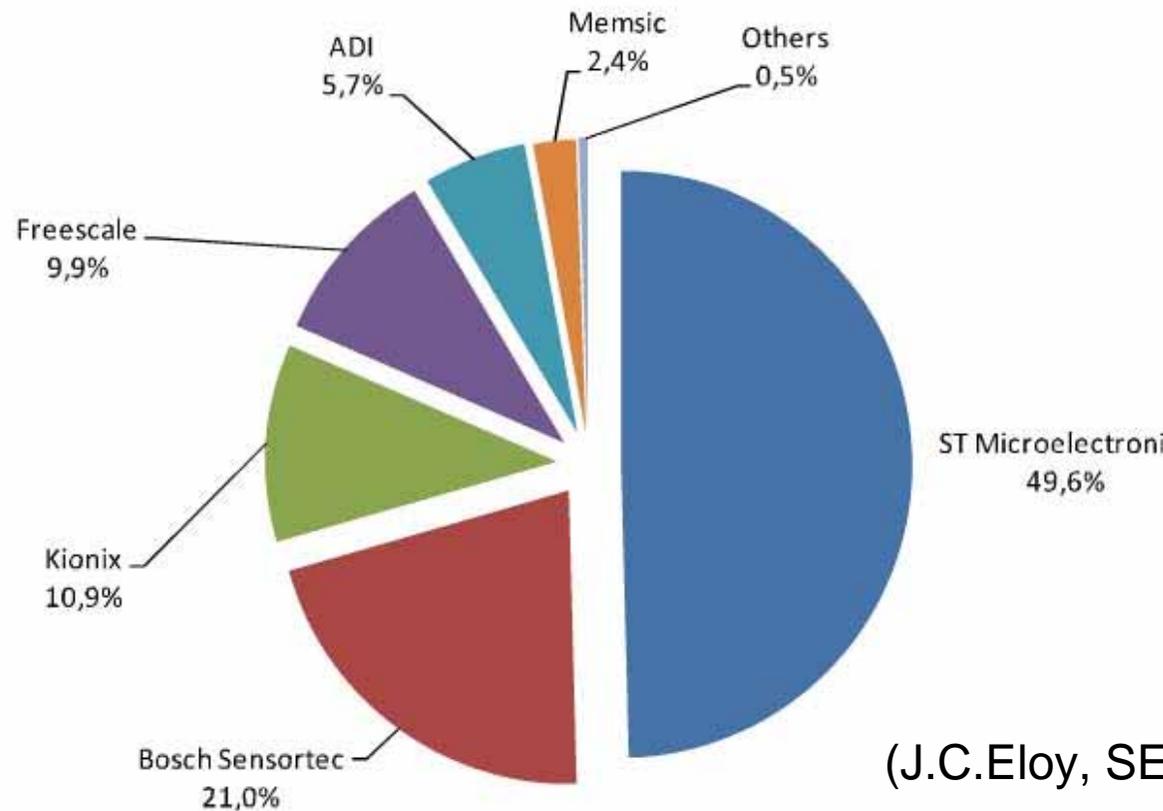
ST Microelectronicsの加速度センサ

厚いポリシリコンを用いた横方向に動く容量型センサ

MEMS Accelerometer Market Share: *STM and Bosch are competing..*

- **ST Microelectronics and Bosch Sensortec are leading the handset accelerometer market**
 - In units it is estimated that ST market shares are even slightly higher, due to their low pricing

2009 MEMS accelerometer market share for mobile phones (% in value)
(total: \$223M)



(J.C.Eloy, SEMICON Japan 2010)