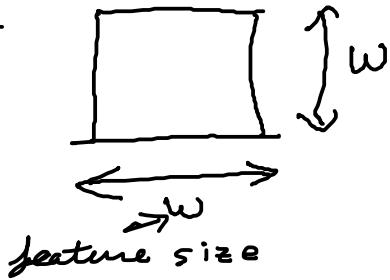


Lec 17

Ex.1



$$A = w^2$$

if density doubles, feature size goes down by $\sqrt{2}$.

if density doubles twice (36 months) feature size decreases by $\sqrt{2} \cdot \sqrt{2} = 2$.

Ex.2

- transmitter AFE
 - DAC (D/A)
 - reconstruction filter
 - up-conversion
 - amplification & filtering
 - isolation & protection