

# Phase Locked Loops



$$f_{LO} = f_{ref} * N/M$$

Once locked,  $f_{ref} = f_{div}$   
But  $f_{div} = f_{LO} / N$   
Therefore,  $f_{LO} = N * f_{ref}$ .  
Smallest change in  $f_{LO}$  is  $f_{ref}$ .

For high tuning resolution, need very small  $f_{ref}$ .

# Phase Locked Loop Electrical Engineering Nmt

**JL Elias**



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