Charge Distribution SAR ADC Architecture with Split Capacitor and Its Testing

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1) Circuit including small capacitor

- 1) Capacitor difference is large
  - Ex) C/128 << 32C
  - Hard to make accurately

2) Circuit including Split Capacitor

- 2) Connect Split Capacitor in series.
  - Large capacitor is equivalent to small capacitor in series.
  - Ex) 32C ⇒ C/2  4C ⇒ C/16