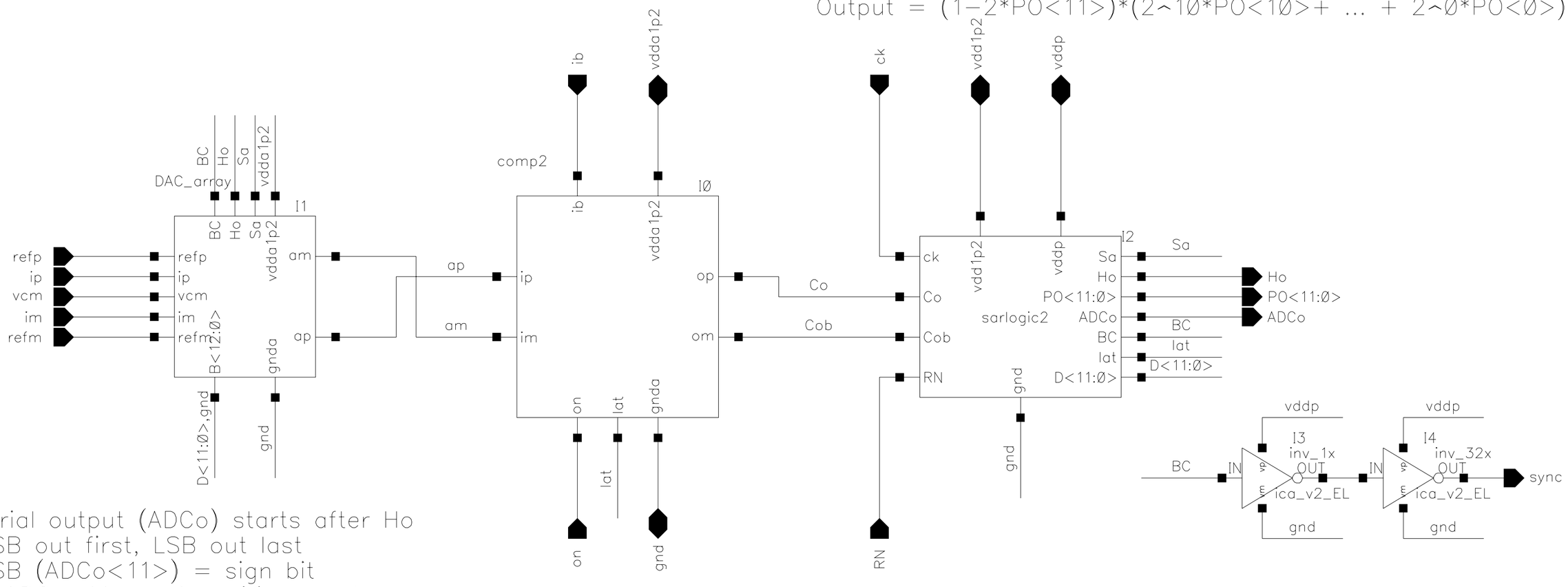
| CAGE NO. | DWG NO. | SH | REV |
|---|---|---|---|
| | | | |

# 12bit SAR ADC Schematic

| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| | | | | |

Parallel outputs PO<11:Ø> ready after sync falling edge
Output = (1−2*PO<11>)*(2^1Ø*PO<1Ø>+ ... + 2^Ø*PO<Ø>)




serial output (ADCo) starts after Ho
MSB out first, LSB out last
MSB (ADCo<11>) = sign bit
− ADCo<11> = 1 positive number
− ADCo<11> = Ø negative number
Output = (2*ADCo<11>−1)*{2^1Ø*[ADCo<11>*ADCo<1Ø>+(1−ADCo<11>)*(1−ADCo<1Ø>)]+
... +2^Ø*[ADCo<11>*ADCo<Ø>+(1−ADCo<11>)*(1−ADCo<Ø>)]}

| UPDATED | ADC12b | | | |
|---|---|---|---|---|
| Dec 17 Ø7:54:1Ø 2Ø18 | | | | |
| DRAWN | | | | |
| CHECKED | | | | |
| CHECKED | SIZE A | CAGE NO. | DWG NO. | REV |
| ISSUED | SCALE | | SHEET | OF |