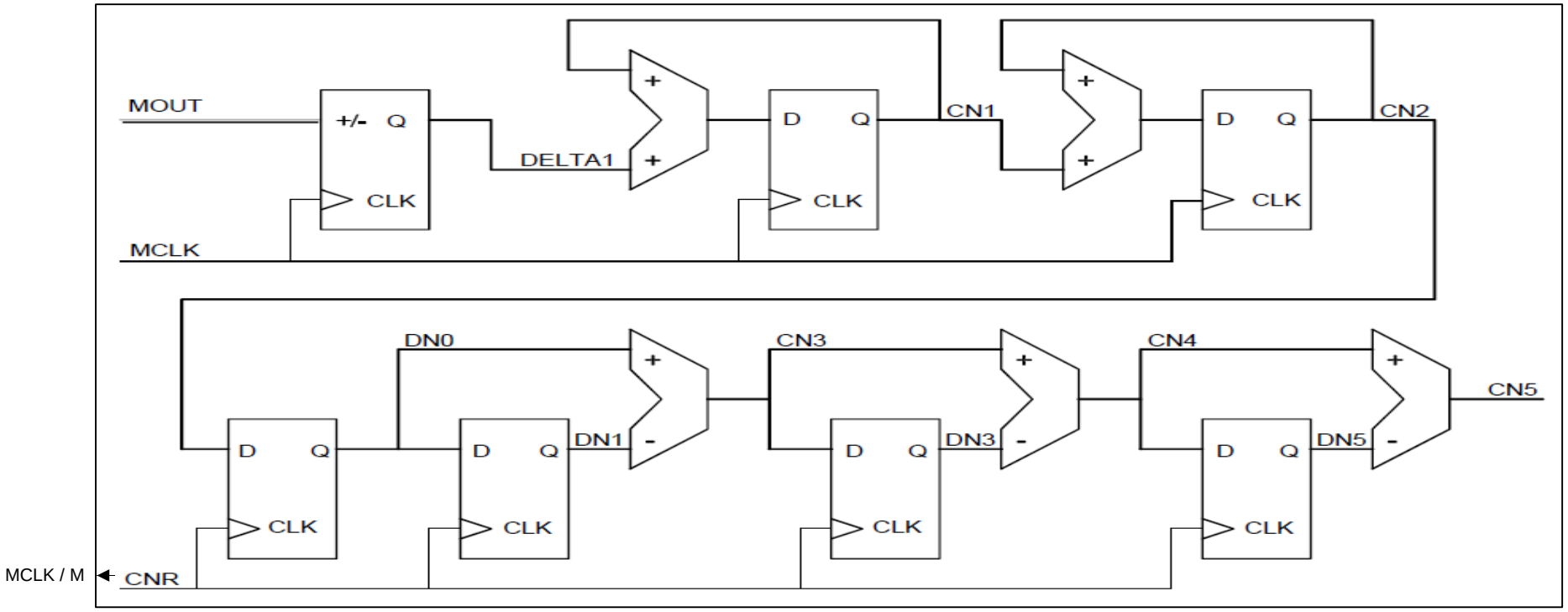
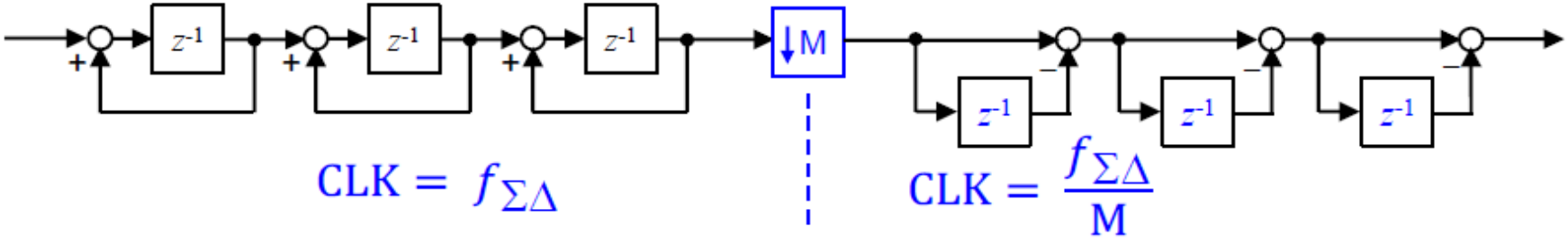
## Sinc3 Digital Filter Circuit




Source: http://www.ti.com/lit/an/sbaa094/sbaa094.pdf , site 14

## The transfer function of **Sinc3 Digital filter**

$$\frac{1}{(1-z^{-1})} \cdot \frac{1}{(1-z^{-1})} \cdot \frac{1}{(1-z^{-1})} \cdot \left(1-z^{-M}\right)\left(1-z^{-M}\right)\left(1-z^{-M}\right)$$




**M** is the decimation ratio of the sampling rate

Source: http://www.f07.fh-koeln.de/imperia/md/content/personen/krah_jens/sigma_delta_current.pdf