

DIMENSIONAMENTO MOSFET - 2 STADI redesign

| tipo | PMOS T1 | PMOS T2 | NMOS T3 | NMOS T4 | PMOS T5 | NMOS T6 | PMOS T7 | PMOS T8 |
|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| K'n/p [A/V ²] | 4,00E-05 | 4,00E-05 | 1,00E-04 | 1,00E-04 | 4,00E-05 | 1,00E-04 | 4,00E-05 | 4,00E-05 |
| ID [A] | 2,00E-04 | 2,00E-04 | 2,00E-04 | 2,00E-04 | 4,00E-04 | 4,00E-04 | 5,00E-04 | 4,00E-05 |
| W [um] | 125 | 125 | 50 | 50 | 250 | 100 | 312,5 | 25 |
| L [um] | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 | 0,5 |
| W/L | 250 | 250 | 100 | 100 | 500 | 200 | 625 | 50 |
| Vov [V] | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| VA [V] | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Lambda (1/VA) | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 |
| gm [A/V] | 2,00E-03 | 2,00E-03 | 2,00E-03 | 2,00E-03 | 4,00E-03 | 4,00E-03 | 5,00E-03 | 4,00E-04 |
| ro [Ohm] | 1,00E+05 | 1,00E+05 | 1,00E+05 | 1,00E+05 | 5,00E+04 | 5,00E+04 | 4,00E+04 | 5,00E+05 |
| tox [m] | 1,40E-08 | 1,40E-08 | 1,40E-08 | 1,40E-08 | 1,40E-08 | 1,40E-08 | 1,40E-08 | 1,40E-08 |
| E ox [F/m] | 3,4515E-11 | 3,4515E-11 | 3,4515E-11 | 3,4515E-11 | 3,4515E-11 | 3,4515E-11 | 3,4515E-11 | 3,4515E-11 |
| Cox [F/um ²] | 2,47E-15 | 2,47E-15 | 2,47E-15 | 2,47E-15 | 2,47E-15 | 2,47E-15 | 2,47E-15 | 2,47E-15 |
| Cgs [F] | 1,03E-13 | 1,03E-13 | 4,11E-14 | 4,11E-14 | 2,05E-13 | 8,22E-14 | 2,57E-13 | 2,05E-14 |
| fp' [Hz] | | | fp'1= | | 3,87E+07 | fp'2= | | 3,58E+06 |
| Cap [F] | Cc | | 3,20E-12 | | CL | | 2,00E-12 | |
| | ft [Hz] | | 9,95E+07 | | fp2 [Hz] | | 3,18E+08 | |
| | SR [V/s] | | 1,25E+08 | | | | | |

