

stage with a current source Me is assumed in saturation in works like a current source -> good gain & Bad aut Put Impredance Ix (905) = V2 V3c = 203 Proz TRL

- Vant

- Vant $\frac{Av = -gm1}{\frac{1}{\pi o2} + \frac{1}{RL} + \frac{1}{RL}}$ equivalent small signal modes

Req1 = 121 11 RL

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Va = - Vaut

Req1 = 121 11 RL - Vait - Vait - R2 Vait - gravin - grap 2 vait - grap R2 Vait + gm vim = - Vaut (1 Req + 1 + Rz (1+ gm1 + gn 16) Vaix = - 8m1

- 8m1

1 - 8m1

1 - 8m1

1 - 8m1

1 - 8m1

Req + 1 - 8m2

Req (9m1 + 8m16) - Gom 1 rey Ro1 101+ Req + R2 + R2 Not (gn 1+ gm 16)