AERMEC
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• DC SWEEP → OPTIMUM GAIN finding

V_{IN_p} : sweep 0 to 5 V

V_{IN_m} : GND

step size 20 µ

$V_{OUT} \in [300\ mV ; 5\ V]$

Zona lineare [900 mV ; 3 V]

centro 2.05 V → + 900 mV

centro 1,35 V

|estremo sup - centro| = 1.05 V

Vcm optimal : 3.375086 V

↳ lies on 1.351 V

A_{CM} : ac analysis

49.22 dB @ 1,81 mHz (DC)

CMRR = 54.61 dB

CMR^+ & CMR^- → Common mode range

Amplificateur → VOLTAGE FOLLOWER

DC SWEEP 0 to 5 V

1 mV

→ CMER = [175 mV ; 4,73 V]

PSRR

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$V_{DD} = 1.5\ V$

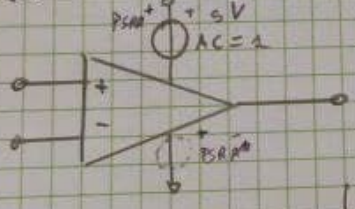
$V_{out} = 0.75\ V$ → uscita satura al massimo!

$V_{DD} = 3.3\ V$

utilizzabile ma non è buono!

PSRR

GENERATORE AC = 1 sull' alimentazione



$PSRR^+ = Ad|_{dB} - A_{out}|_{dB}$

- 1 Hz ÷ 1.5 G
- 20 point per dec

49.66 dB

→ 103.79 dB − 49.66 dB = 54.13 dB ($PSRR^+$)

$PSRR^- = 103.79 - 62.52\ dB = 41.27\ dB$

Settling time

V_{PULSE}:

666,67 mV

1,33 V

10 μs delay

30+ ms rise

1,5 μm width

3 μm period

settling time$^+$ 140+ ~~[illegible]~~ 1,323 V

Δ = 663,3 mV

St^+ = ~~604~~ 626 ms

St^- = 604 ms → 672 mV

~~666 mV + 330 mV~~