

ELECENG 2EI4

DP #3: Amplifier

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March 21, 2025

2. Circuit Schematic

a. Transistor Used

A MOSFET was used as the value of g_m could not be found due to several unknowns.

i.e. in a Common Drain circuit:

$$|V_{in}| \leq$$

b. Amplifier Topology Used

c. Calculations

3. Simulation

a. Modelling Transistor

b. Simulation Settings

c. Gain

d. Other Parameters

4. Physical Circuit

5. Measurements

a. Measurements Performed

b. Determining Midband Gain

c. Demonstrating Linearity