

6.002 Demo# 07 (Load Set up Demo#07PG.set)

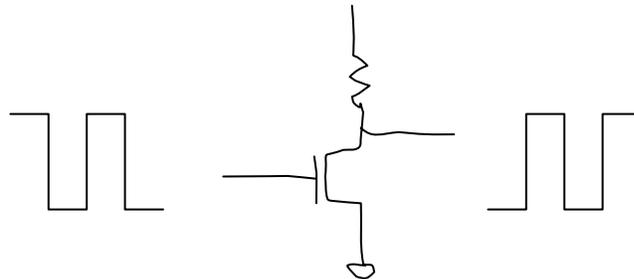
MOS Inverter

Agarwal Fall 00

Lecture 6

Purpose: This demo displays the input and output of a MOSFET inverter, with a square wave input and the corresponding output.

Steps: Simply display the input (square wave) and corresponding inverted output on the scope.



Description: MOS Inverter

To show MOS Inverter input and output waveform

Note: For more detail see circuit schematic on the next page; Fig 1

Note : Set switch on Music position!

Oscilloscope Setup

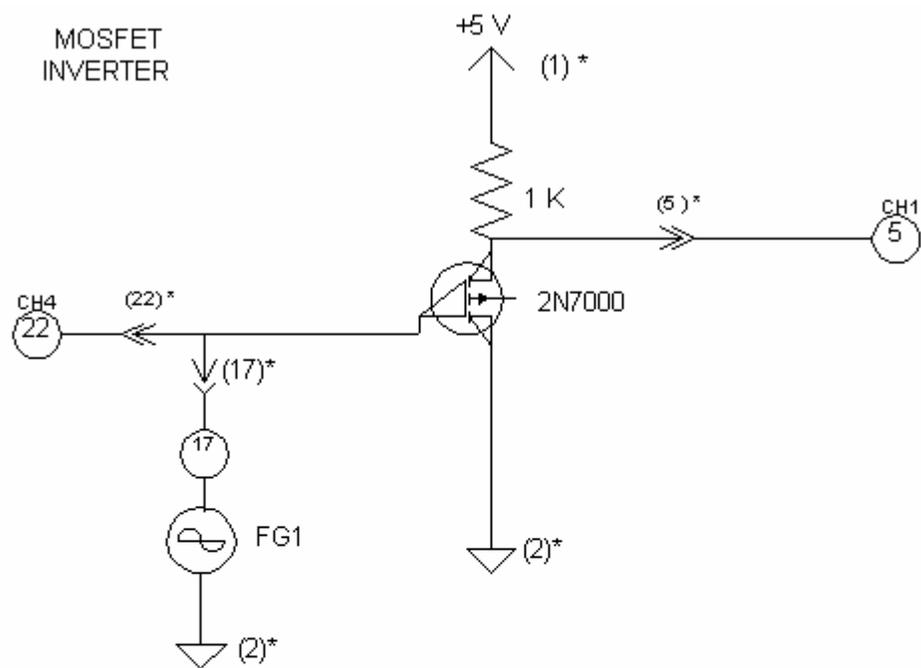
CH	V/DIV	OFFSET	MODE	FUNC	MATH	VERTICAL	HORIZONTAL
1 on	2	6.0 V	DC	off			
2 off				off			
3 off			DC	off			
4 on	2	-1.0 V	DC	off			
Horizontal: 500 μ		Acquisition: AUTO			AUTO 4	Trigger: CH4	

Waveform Generator Setup

Power Supply Setup

UNIT	WAVE	AMP	OFFSET	FREQ	+6	+25	-25	OUTPUT
FG1	SQ	5 v	0	1 KHZ	0	5		on
Trigger:								INT

Note: Set FG1 @ High Z !!!



* Note: # of pins
on the PC
board and BNC
connectors

○ BNC
() Pins

Fg1

Input Signal



Output Signal

