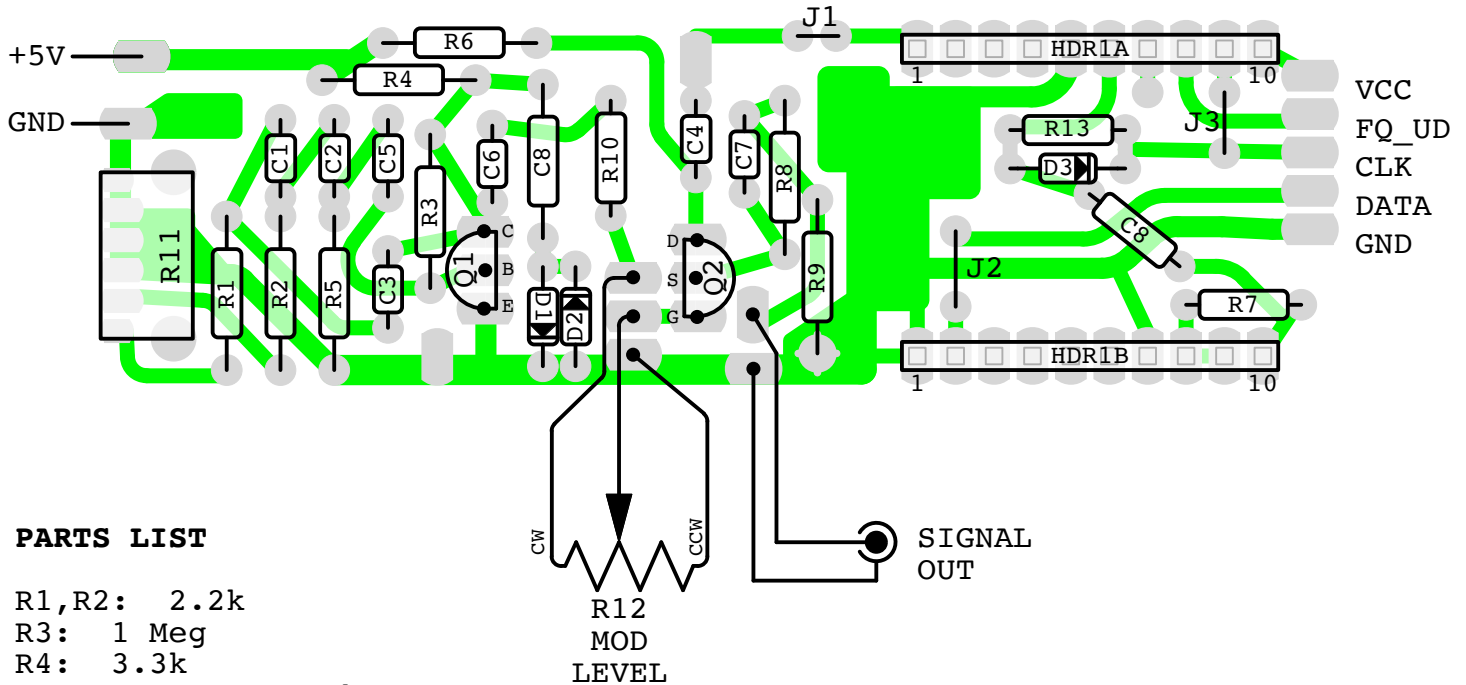


# DDS Modulator Board

## Component Layout & Parts List



## PARTS LIST

R1,R2:	2.2k	V	V	V	
R3:	1 Meg		R12		
R4:	3.3k		MOD		
R5,R6,R7,R13:	10k		LEVEL		
R8:	4.7k				
R9:	51 $\Omega$				
R10:	10-15k* (see note 1)				
R11:	20k dual linear taper pot (see note 2)				
R12:	20k linear taper pot				

C1,C2,C3,C4: 0.01  $\mu\text{F}$   
C5,C6,C7,C8: 0.1  $\mu\text{F}$

D1,D2,D3: 1N4148

Q1: 2N5089 or MPS-A18  
Q2: J310

J1,J2,J3: Jumpers

## NOTES

1. Resistor R10 should be selected such that 100% modulation occurs at full rotation of R12.
2. R11 solder pads fit Panasonic EVJ-C51F02B24
3. HC-SR08 DDS module mounts on HDR1A and HDR1B. It is oriented so that the Zout2 signal is connected to HDR1A pin 1.

Revised 2022-11-16