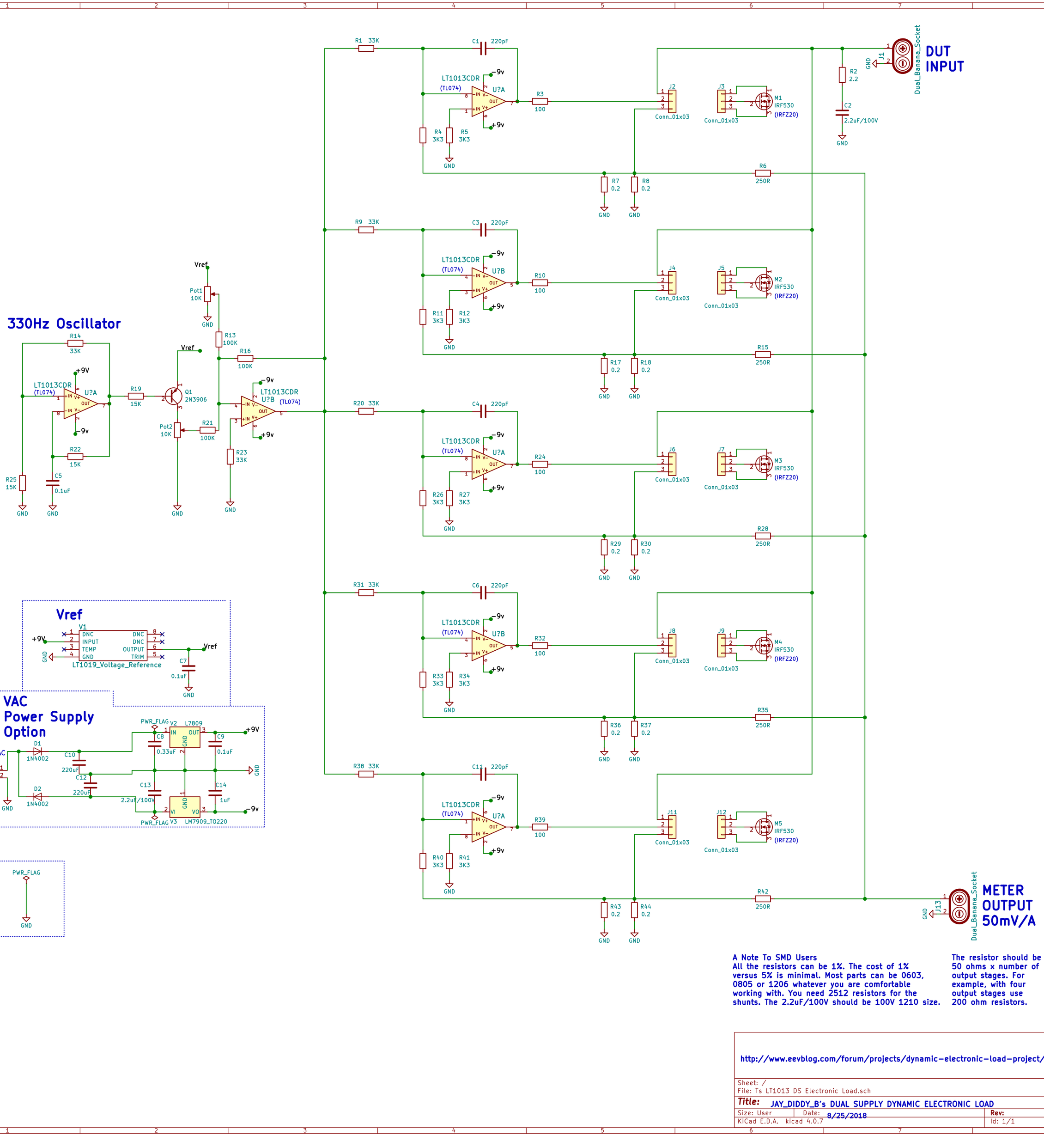
330Hz Oscillator
Vref
VAC
Power Supply
Option
DUT
INPUT
METER
OUTPUT
50mV/A
LT1013CDR
(TL074)
U?A
U?B
IRF530
(IRFZ20)
LT1019_Voltage_Reference
LM7909_TO220
L7809
2N3906
Conn_01x03
Screw_Terminal_01x02
Dual_Banana_Socket
PWR_FLAG
12VAC
+9V
-9v
GND
R1 33K
R2 2.2
R3 100
R4 3K3
R5 3K3
R6 250R
R7 0.2
R8 0.2
R9 33K
R10 100
R11 3K3
R12 3K3
R13 100K
R14 33K
R15 250R
R16 100K
R17 0.2
R18 0.2
R19 15K
R20 33K
R21 100K
R22 15K
R23 33K
R24 100
R25 15K
R26 3K3
R27 3K3
R28 250R
R29 0.2
R30 0.2
R31 33K
R32 100
R33 3K3
R34 3K3
R35 250R
R36 0.2
R37 0.2
R38 33K
R39 100
R40 3K3
R41 3K3
R42 250R
R43 0.2
R44 0.2
C1 220pF
C2 2.2uF/100V
C3 220pF
C4 220pF
C5 0.1uF
C6 220pF
C7 0.1uF
C8 0.33uF
C9 0.1uF
C10 220uF
C11 220pF
C12 220uF
C13 2.2uF/100V
C14 1uF
Pot1 10K
Pot2 10K
D1 1N4002
D2 1N4002
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
M1
M2
M3
M4
M5
V1
V2
V3
A Note To SMD Users
All the resistors can be 1%. The cost of 1% versus 5% is minimal. Most parts can be 0603, 0805 or 1206 whatever you are comfortable working with. You need 2512 resistors for the shunts. The 2.2uF/100V should be 100V 1210 size.
The resistor should be 50 ohms x number of output stages. For example, with four output stages use 200 ohm resistors.
http://www.eevblog.com/forum/projects/dynamic-electronic-load-project/
Sheet: /
File: Ts LT1013 DS Electronic Load.sch
Title: JAY_DIDDY_B's DUAL SUPPLY DYNAMIC ELECTRONIC LOAD
Size: User
Date: 8/25/2018
Rev:
KiCad E.D.A. kicad 4.0.7
Id: 1/1