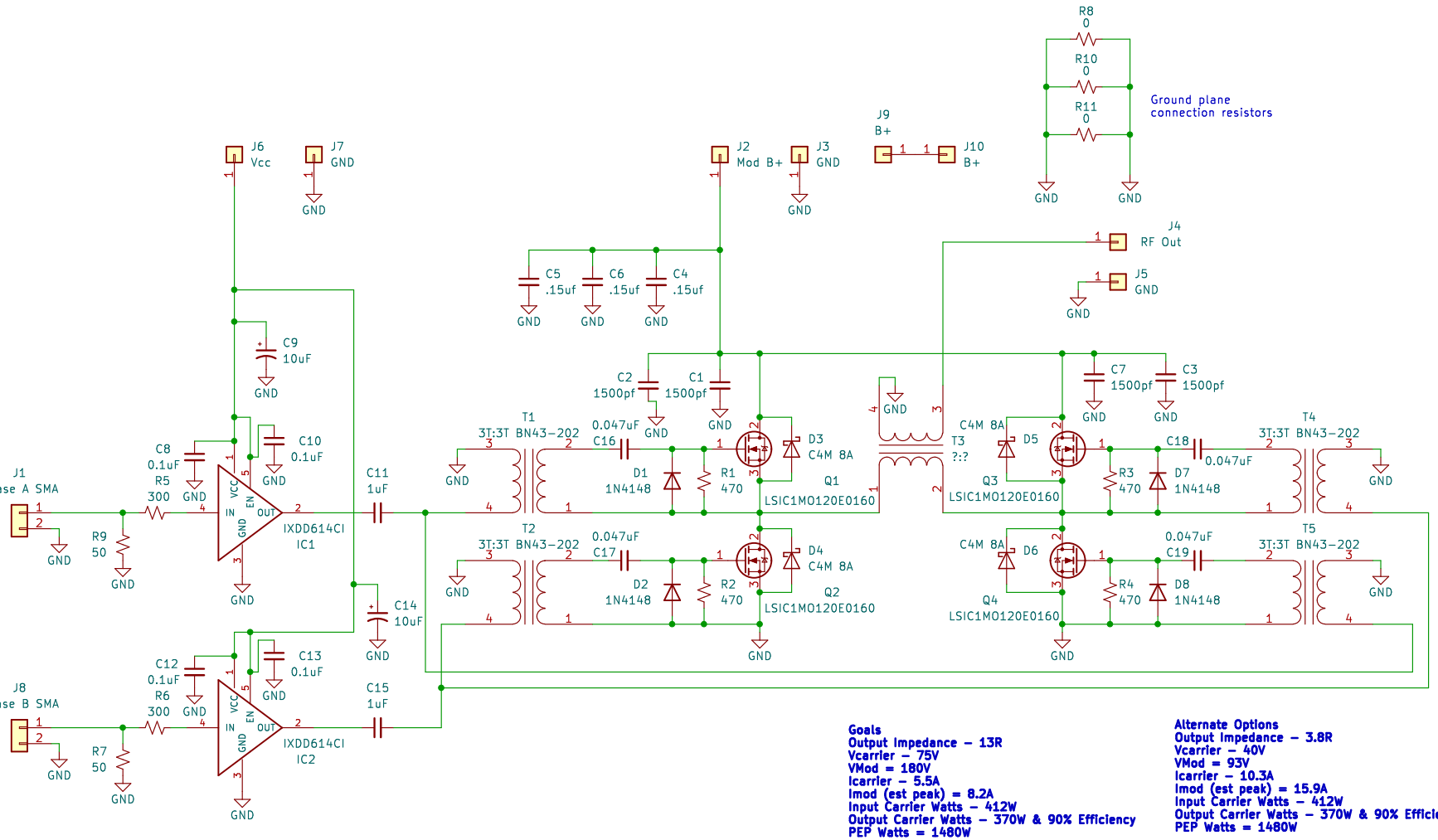

Goals
Output Impedance – 13R
Vcarrier – 75V
VMod = 180V
Icarrier – 5.5A
Imod (est peak) = 8.2A
Input Carrier Watts – 412W
Output Carrier Watts – 370W & 90% Efficiency
PEP Watts = 1480W

Alternate Options
Output Impedance – 3.8R
Vcarrier – 40V
VMod = 93V
Icarrier – 10.3A
Imod (est peak) = 15.9A
Input Carrier Watts – 412W
Output Carrier Watts – 370W & 90% Efficiency
PEP Watts = 1480W

Net – cannot achieve output wattage goal for C3M090028 using 93V power supply. Exceeds max ratings for continuous Id. Need to reduce wattage goal at this voltage or change device. Try – LittleFuse LSIC1MO120E0160

H5 MountingHole
H6 MountingHole
H1 MountingHole_Pad
H2 MountingHole_Pad
H3 MountingHole_Pad
H4 MountingHole_Pad
GND

WA1GFZ/W9JSW

Sheet: /
File: Tx-board.kicad_sch

Title: Tx Board for 350W Class D Transmitter

Size: USLetter	Date: 2024-01-09	**Rev: V1.2**
KiCad E.D.A. kicad (6.0.2)		Id: 1/1