J2
694106301002

GND ← 3 | GND_2   GND_1 | 2 → GND
                          POWER | 1

U2
LM7805_TO220

J3
Conn_01x03_Socket
1
2
3
GND

VO | GND | VI
3   1
      2

C3
0.1u

C4
0.33u

GND

preamp, using a very high slew rate op-amp
this is needed to amplify the 3.3V square wave to 12V

actual Class E amplifier

LT1818
U1

R0
0

M1
RD16HHF1

L1
10μH

C2
100pF

C1
10p

L2-a1
1.5μ

L2-b1
500n

R1
0

impedance matching network

CS1
200p

CL1
110p

LI1
130n

R2
0

low pass filter

LF1
390n

LF2
390n

CF1
120p

CF2
220p

CF3
120p

J1
Conn_Coaxial_Small

3.3k
RF1

RI1
1k

.model MRF101AN VDMOS(Rg=4 Rd=1 Rs=0.1 Vto=2.2 Kp=7.1 Lambda=0 mtriode=0.692 subthres=1.07m Cgdmax=5p Cgdmin=1p Cgs=130p Cjo=130p M=0.4 Vj=2.3 BV=140 tt=1n)
.model RD16HHF1 VDMOS(Rg=987m Rd=0m Rs=111m Vto=3.19 Kp=0.495 Lambda=0 mtriode=0.804 subthres=2.37e-02 Cgdmax=11.6p Cgdmin=1.64p Cgs=44.9p Cjo=73.1p M=0.297 Vj=0.839)
.model MySwitch SW(Ron= .0003250389 Roff=10000 Vt=3.5 Vh=0)
.tran 0 30u 25u 100p startup

.param freq 28074000
.step param freq 28Meg 30Meg 0.1Meg