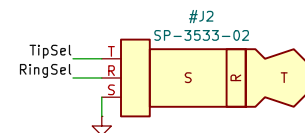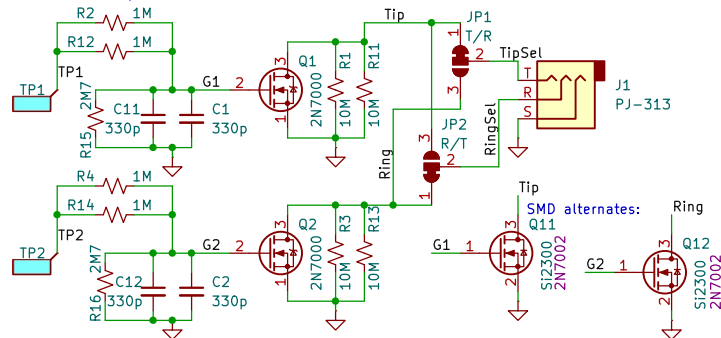(Mostly) SMD Version
C11, C12
J1 – thru–hole 3.5mm jack
Q11, Q12 – Si2300 (tested, but R15, R16 needed)
R11, R13
R12, R14
R15, R16 – NOT on current version of PCB
Either solder on top of
C11, C12, (SMD parts), or
use THT parts in C1, C2 pads

THT (Thru–hole) Version using 2N7000
2N7000 are used in KD9AIE's original 'Penny Paddles'
but have not been tested here.
C1, C2
J1 – thru–hole 3.5mm jack
Q1, Q2 – 2N7000 (untested)
R1, R3
R2, R4

R15, R16 can be 2M~4M
Proto #2, 3:
C11, C12= 470p
Proto #2:
R15, R16= 2M2
Proto #3:
R15, R16= 3M3

Swap 'ring' and 'tip'
using JP1, JP2

R2 1M
R12 1M
TP1
TP2
TP1
R15 2M7
C11 330p
C1 330p
G1 2

R4 1M
R14 1M
TP2
TP2
R16 2M7
C12 330p
C2 330p
G2 2

Q1 2N7000
R1 10M
R11 10M
Tip

Q2 2N7000
R3 10M
R13 10M
Ring

JP1 T/R
TipSel
JP2 R/T
RingSel
T
R
S
J1 PJ–313

SMD alternates:
Tip
Q11 Si2300 2N7002
G1 1

Ring
Q12 Si2300 2N7002
G2 1

#J2 SP–3533–02
TipSel T
RingSel R
S
S R T

ToDo:
Determine if male plug fits on PCB,
(or just use adapter below
https://www.aliexpress.us/item/2255801052608069.html)

H1 M2.2
H2 M2.2

Sheet: /
File: touchKeyer.kicad_sch
Title: Paddle Keyer
Size: USLetter | Date: 2025–10–31 | Rev: 0.1
KiCad E.D.A. 9.0.6 | Id: 1/1