



TR1  
TRAN-2P2S  
LP=55H  
LS=1H  
M=1.0  
RP=1m  
RS=1m

+88.8  
AC Volts

+88.8  
Volts

D12  
LED-RED

D5  
1N4148

D6  
1N4148

D7  
1N4734A

D11  
1N4001

D10  
1N4148

P1 (V)  
10k

P2 (A)  
10k

C2  
47u

C1  
3300u

C3  
47u

R3  
220R

R21  
10k

R17  
33R

R4  
4k7

R6  
10k

R5  
10k

R8  
27k

R11  
27k

R10  
270k

C5  
220n

R14  
1k5

R12  
56k

C6  
100p

R13  
33k

R15  
1k

R16  
1k

R22  
3k9

R19  
2k2

R20  
10k

R9  
2k2

U2  
TL081

U1  
TL081

U3  
TL081

Q1  
BC548

Q2  
BD139

Q4  
2N3055

