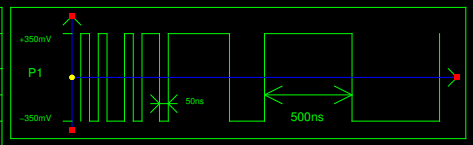
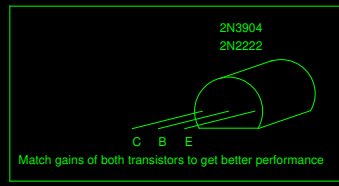
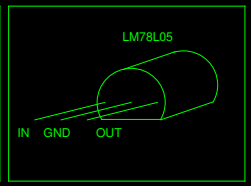
With signal at CON1		
	AC	DC
P1	700mVpp	0V
P2	700mVpp	P7+0.8V
P3	<100mVpp	P7
P4	0V	P7+0.8V
P5	4.2Vpp	9.9V
P6	2.5Vpp	P7/2+0.5V
P7	<0.15V	3–6V
P8	1.8V	3.2V
P9	0V	0.6V

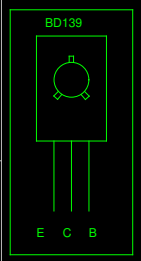
Without signal at CON1		
	AC	DC
P1	0V	0V
P2	0V	P7+0.8V
P3	0V	P7
P4	0V	P7+0.8V
P5	0V	undef.
P6	2.5Vpp	P7–0.05V
P7	0V	6.3V
P8	0V	0V
P9	0V	0.6V

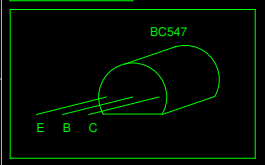
AC values to be ignored by ordinary user – they are for oscilloscope.
They are so fast that multimeter doesn't show them.

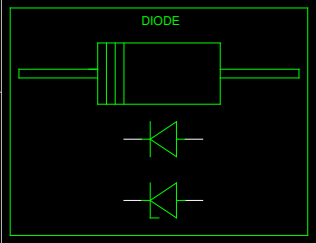


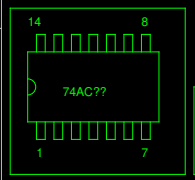


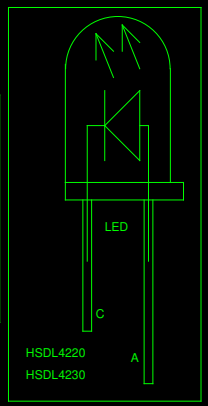












The shielding lid must have many contact flaps.

Lead CON1 and CON12V/CONGND cables in several turns through a ferrite bead, ring, pot or around a ferrite stick.

C8 100n
C9 10n
R8 10k
Q3 BC547
Q4 BD139
D2 7.5V
BC547 Q5
C31 100n
P9
R18 330
P7
L1 10 turns on 8mm diameter
J1
C1 1n
C2 100n
D1 1N5408
C10 100n
C11 470u/16V
R7 6.8
C17 100n
C18 100n
C19 100u/10V
U1 74AC04
U2 74AC04
U3 74AC04
J2
P1
From AUI interface (TX)
J3
75R impedance
700mV pp
R1 82
C3 10n
C12 100n
C13 100n
C20 1n
C21 1n
C22 1n
C23 1n
C14 100n
C15 100n
C24 22n
C25 22n
C26 22n
R2 27
C4 100n
C5 1n
C27 22n
C28 22n
C29 22n
R12 27k
R13 33k
R14 47k
R15 56k
For tuning R9
R3 1k
R4 1k
R6 820
C16 10n
Q1 2N3904
Q2 2N3904
P2
P3
P4
P5
P6
P8
R5 1k
C6 1n
C7 100n
R9 39k
R10 47k
C30 10n
R11 100k
R16 27
C32 1n
C33 100n
C34 10u/10V
LED1
HSDL4230
R17 6.8
C35 1n
C36 100n
C37 10u/10V

Ronja Nebulus

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