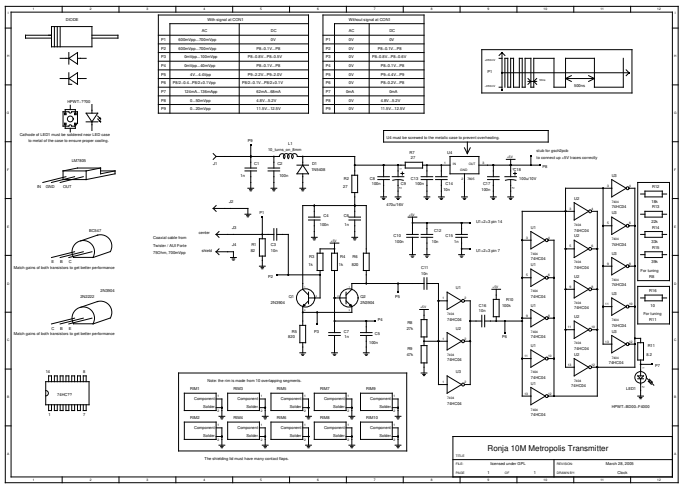
D1C60
HPWT-7700
Cathode of LED1 must be soldered into LED case to metal of the case to ensure proper cooling.
LM7805
BC547
Match gains of both transistors to get better performance
2N3904
2N2222
Match gains of both transistors to get better performance
74HCT7
With signal at CON1
AC
DC
P1 600mVpp...700mVpp 0V
P2 600mVpp...700mVpp P6..0.1V...P6
P3 0mVpp...100mVpp P6..0.6V...P6..0.6V
P4 0mVpp...60mVpp P6..0.1V...P6
P5 0V...4.05pp P6..0.2V...P6..0.2V
P6 P6/2..0.4...P6/2+0.7Vpp P6/2..0.7V...P6/2+0.7V
P7 12mA...720mVpp 42mA...66mA
P8 0...80mVpp 4.8V...5.2V
P9 0...2mVpp 11.6V...12.6V
Without signal at CON1
AC
DC
P1 0V 0V
P2 0V P6..0.7V...P6
P3 0V P6..0.6V...P6..0.6V
P4 0V P6..0.1V...P6
P5 0V P6..0.2V...P6
P6 0V P6..0.2V...P6
P7 0mA 0mA
P8 0V 4.8V...5.2V
P9 0V 11.6V...12.6V
P1
100ns
U5 must be screwed to the metalic case to prevent overheating.
slide for gain/Epsilo
to connect up +5V if traces correctly
L1
16 turns, ø= .8mm
D1
1N4148
Coaxial cable from
Tumbler / ALU Fuins
75Ohm, 700mVpp
center
shield
2N2905
2N3904
74HC04
U1
U2
U3
U4
U5
P10
10k
P11
20k
P12
50k
P13
10k
P14
10k
P15
10
P16
50k
LED1
HPWT..BDSS..F-6000
Note: the cnt is made from 10 overlapping segments.
RSA7
RSA6
RSA5
RSA4
RSA3
RSA2
RSA1
RSA0
Component Solder
The shielding lid must have many contact flaps.
Ronja 10M Metropolis Transmitter
Drawn
Rich
licenced under GPL
Revision:
March 28, 2008
Sheet
1
of
1
Check