Headroom Meter Parts List

Quantity Designation Description Mouser Part #

Capacitors

3 C1, C2, C6 Ceramic, 1 µF, 50 V 581-SR305C105KAT

1 C3 Ceramic, 47 pF, 50 V 75-1C10C0G470J050B

2 C4, C5 Electrolytic, 100 µF, 25 V 80-ESK107M025AC3AA

Diodes

7 CR1 – CR7 Silicon, 1N4151 78-1N4151

ICs

1 LM3914

3 TL072 Dual op-amps

LEDs

8 I1 – I8 T1, Green 859-LTL-4231N

1 I9 T1, Yellow 859-LTL-4251N

1 I10 T1, Red 859-LTL-4211N

Miscellaneous

1 J1 RCA Jack, PC-mount 161-R239A1-E

1 J2 Header strip, 3 pos., locking 538-22-23-2031

1 J3, J4 (small pin)\* DC Power connection, 5.5 ×2.1 mm 806-KLDVHCX-0202A

1 J3, J4 (large pin)\* DC Power connection, 5.5 ×2.5 mm 806-KLDVHCX-0202B

4 4-40 X ½” Threaded Spacer 534-1893

Power Supply\*

2 12 V “Wall-Wart” regulated switching supply, 100 mA (min). Check Internet for the best deal and select the proper J3 and J4 board connectors to mate.

Resistors

6 R1, R3, R5, R6, R12, R22 0.25 W Carbon Film, 10 kΩ, 5% 660-CF1/4C103J

1 R2 Variable trimmer, 100 kΩ 652-3362P-1-104LF

4 R4, R8, R9, R11 0.25 W Carbon Film, 100 kΩ, 5% 660-CF1/4C104J

1 R7 0.25 W Carbon Film, 130 Ω, 5% 660-CF1/4C131J

1 R10 0.25 W Carbon Film, 100 Ω, 5% 660-CF1/4C101J

1 R13 0.25 W Carbon Film, 8.2 kΩ, 5% 660-CF1/4C822J

1 R14 0.25 W Carbon Film, 680 Ω, 5% 660-CF1/4C681J

2 R15, R17 0.25 W Carbon Film, 1.2 kΩ, 5% 660-CF1/4C122J

1 R16 0.25 W Carbon Film, 3 kΩ, 5% 660-CF1/4C302J

1 R18 0.25 W Carbon Film, 43 kΩ, 5% 660-CF1/4C433J

1 R19 0.25 W Carbon Film, 2 kΩ, 5% 660-CF1/4C202J

1 R20 0.25 W Carbon Film, 1 kΩ, 5% 660-CF1/4C102J

1 R21 0.25 W Carbon Film, 620 Ω, 5% 660-CF1/4C621J

Transistors

1 Q1 NPN, 2N3904 512-2N3904BU

1 Q2 PNP, 2N3906 512-2N3906BU