

Refrence Definition	Value	Quantity
OPAMPS AND OTHER ICs		
TL082a, TL082B	TL082	2
U3	TL071	1
4558a	RC4558	1
LM301OUTPUT	LM301	1
LM317	LM317	1
LM337	LM337	1
CHIP SOCKETS (HIGHLY RECOMMENDED)		
SOCKET	DIP 8	5
DIODES		
CR1-CR4, CR20-CR23	IN4004	8
CR6-CR9 , CR12-CR17, CR19	1N4148	11
TRANSISTORS		
Q8	NTE129 or 2N4037	1
Q14	NTE128 or 2N3053	1
Q7	BC560C / OMIT (T)	1
C0G/NPO TYPE CERAMIC CAPACITORS		
C25, C26	10pf	2
C14	22pf	1
C23, C33	100pf	2
C82	150pf	1
POLYESTER FILM CAPACITORS(PIN SPACING)		
C24(7.5mm)	1nf	1
C18 (5mm, 7.5mm, 10mm)	10nf (0.01uf)	1
C11 (7.5mm, 10mm, 15mm, 22.5mm)	0.33uf	1
C17 (5mm, 7.5mm, 10mm, 15mm)	0.47uf	1
POLYPROPYLENE FILM CAPACITOR		
C12 (7.5mm, 10mm, 15mm, 22.5mm)	0.33uF/1.8uF(T)	1
C9, C10, C19, C20 , C32, (7.5mm)	1nf	5
ELECTROLYTIC CAPACITORS (SPACING)		

C34 (2.54mm)	1uf 50v	1
C21 (BIPOLAR OR POLY FILM) (5, 7.5, 10, 15, 20, 22.5mm)	4.7uf 25v (BI or POLY)	1
C40, C41, C42, C43 (2.54mm)	10uF 25v	4
C27, C28 C35 (2.54mm)	22UF 16V	3
C2,C3 (7.5mm)	1000uf 35v	2

TANTALUM CAPACITOR (SPACING)

C15 (5mm)	22uf TANT 16v	1
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OPTIONAL CAPACITORS

C39 NEEDED FOR THAT CHIP	100pf OPTIONAL	1
C50, C51 When using external power supply	1nf OPTIONAL	2
C53, C54 " "	470uf 35v OPTIONAL	2

RESISTORS (ASSUME ALL ARE 1%)

R88,R89,R90	22r	3
R25 (OMIT IF USING PRE-TRIMMED VCA)	22r	1
R78,R93	100r	2
R1 *If using VU meter w/ LEDS just jumper w/ wire*	100r 0.5w / WIRE (led)	1
R104,R105	120r	2
R30	200r/OMIT(T)	1
R48	200r/1K(T)	1
R60	270r	1
R29	470r / OMIT(T)	
R53,R67,R74	1k	4
R68,R73, R110	1.5k	3
R20, R82, R85, R86, R94, R95	2.2k	6
R42, R103	2.4k	2
R46, R57	4.7k	2
R116	5.1k	1
R69	5.49k	1
R87, R91	5.6k	2
R41	7.5k	1
R107 (1k for 1ma meter/10k for 0.1ma meter)	10k/1k METER	1
R23, R24, R33, R45, R50,R77,R79,R83	10k	8
R21,R22	20K	2
R84, R92	22.1k	2
R38	23.2k	1
R31	24.9K/133k(T)	1
R58	90.9k	1
R106,R108,R109,R55,R75,R81	100k	6
R26, R32	100K/20k(T)	4
R54	200k	1
R28 (OMIT IF USING PRE-TRIMMED VCA)	300K/220k(T)	1
R125 (OR ~10K FOR BRIGHTER LEDS)	260k / 10K LED	1
R65	390k	1
R71	523k	1
R35, R72	909k	2
R49	1.29M	1

R37, R61	1.5M	2
R52	4.7M	1

TRIMMER RESISTORS (0.1" STANDARD PIN SPACING)

R100, R101	5k	2
R124,R34,R43,R51,R56,R59,R62,R63	50k TRIMMER	8
R27 (OMIT IF USING PRE-TRIMMED VCA)	50k TRIMMER	1
R36 (250k or 500k)	250k COMP SYM TRIM	1

POTENTIOMETERS

THRESHOLD,RATIO,OUTPUT GAIN	20K (LINEAR)	3
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MOLEX CONNECTORS

KK SERIES 2.54 mm SPACING (0.1")	3 PIN	4
KK SERIES 2.54 mm SPACING (0.1")	7 PIN	2
KK SERIES 3.96 mm SPACING (0.156") (0.46" HOLE)	3 PIN (ROUND PIN ONLY)	1

REMEMBER ALL PARTS FOR MOLEX CONNECTORS

EXTRA

ABOVE AND BELOW LEDS	LED (COLORS OF CHOICE)	2
METER (CUSTOM SCALE)	1 or 10 ma DC	1
POWER TRANSFORMER	2 X 18V (AT LEAST 25VA)	1
INPUT/ OUTPUT JACKS	TRS/XLR	2
IEC Connector and Fuse	0.25 Amp	1