



## LA502 Parts list

All the components in this list are included in the kit  
Tous les composants de cette liste sont inclus dans le kit

Reference	Value	Qty	Description	Marking
R34, R35, R37	1R	3	Resistor 1%, 1/4W	BRN-BLK-BLK-SLV-BRN
R8, R9, R10, R11, R12, R13, R14, R15	12R	8	Resistor 1%, 1/4W	BRN-RED-BLK-GLD-BRN
R6, R20, R39	470R	3	Resistor 1%, 1/4W	YEL-VIO-BLK-BLK BRN
R3, R4, R18, R33	1K	4	Resistor 1%, 1/4W	BRN-BLK-BLK-BRN-BRN
R17	1K	1	Resistor 1%, 1W	BRN-BLK-BLK-BRN-BRN
R22, R36, R38	2K2	3	Resistor 1%, 1/4W	RED-RED-BLK-BRN-BRN
R16, R28	4K7	2	Resistor 1%, 1/4W	YEL-VIO-BLK-BRN-BRN
R26, R27	10K	2	Resistor 1%, 1/4W	BRN-BLK-BLK-RED-BRN
R1	12K	1	Resistor 1%, 1/4W	BRN-RED-BLK-RED-BRN
R2	22K	1	Resistor 1%, 1/4W	RED-RED-BLK-RED-BRN
R7, R21	47K	2	Resistor 1%, 1/4W	YEL-VIO-BLK-RED-BRN
R24, R25	68K	2	Resistor 1%, 1/4W	BLU-GRY-BLK-RED-BRN
R29, R30, R31	100K	3	Resistor 1%, 1/4W	BRN-BLK-BLK-ORG-BRN
R5, R19, R23, R32	2M2	4	Resistor 1%, 1/4W	RED-RED-BLK-YEL-BRN
C4, C5	22pF	2	Capacitor Ceramic (R 5mm)	220
C1, C2, C14	470pF	3	Capacitor Ceramic	471
C7, C8, C9, C10, C11, C12, C19, C20, C21, C22, C25, C26	100nF	12	Capacitor Ceramic	104
C6	1uF	1	Capacitor Ceramic	105
C16	22nF	1	Capacitor Film	0.022
C17	100nF	1	Capacitor Film	0.1
C18	220nF	1	Capacitor Film	0.22
C15	BP10uF	1	Capacitor Electro, Bipolar	
C3, C13	BP100uF	2	Capacitor Electro, Bipolar	
C23, C24	330uF-25V	2	Capacitor Electro Low ESR, 105°	
T1	Ratio 1:1	1	Line input transformer	
T2	Ratio 1:2	1	Line output transformer	
D1, D5, D6	1N4004	3	Rectifier diode	1N4004
D2, D3, D4	1N914	3	Signal diode	914 or 4148
D7, D8, D9, D10, D11, D12	LED	6	3mm LED red	
OC1		1	Opto-coupler	
Q1	J111	1	NPN Power transistor	
U1, U2, U3, U4, U5, U6	OPA2134	6	Dual Op-Amp	OPA134
U7	TL431A	1	Precision voltage reference	
U8, U9	LM339	2	Quad comparator	
U10	LM317LZ	1	Positive voltage regulator	
SW1, SW2, SW3, SW4	DPDT	4	Min toggle switch on/off/on	
CN1a	10 pins	1	SIL 2.54 socket 1x10 pins	

CN1b	10 pins	1	SIL 2.54 header 1x10 pins	
	8 pins	6	IC socket	
	14 pins	2	IC socket	
TP1...TP3, V+, V-, 0V		6	Test pin	
P1, P2	100k $\Omega$	2	Potentiometer	<b>100K LOGB</b>
P3	2k $\Omega$	1	Trimmer pot	<b>102 or 1K</b>
P4...P9	10k	6	Trimmer pot	<b>502 or 5K</b>
RLY1		1	Submin relay DPDT 24V	
Main PCB		1	PCB	
knob		2	Knob	
		1	LA502 front panel	
		1	Side plate	
Front pannel assembly	M3x6	2	Black screw countersunk	
Cover assembly	M3x6	4	Screw countersunk	
PCB assembly	M3	4	Lock washer	
Main PCB assembly	M3x25	4	Spacer male/fem	
(1) Data can be changed without notice				
(1) Les donnée peuvent être modifiées sans préavis				
Schematic Rev 1.3 - PCB Rev 1.2				
Last modified : 19/10/2018				