



CP5176 Parts list (1)

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
R56, R57	5R6	2	Resistor 1%, 1/4W	GRN-BLU-BLK-SLV-BRN
R21, R58, R59	47R	3	Resistor 1%, 1/4W	YEL-VIO-BLK-GLD-BRN
R16, R17, R44	100R	3	Resistor 1%, 1/4W	BRN-BLK-BLK-BLK-BRN
R4, R8	180R	2	Resistor 1%, 1/4W	BRN-GRY-BLK-BLK-BRN
R9	220R	1	Resistor 1%, 1/4W	RED-RED-BLK-BLK-BRN
R5, R24, R54	1K	3	Resistor 1%, 1/4W	BRN-BLK-BLK-BRN-BRN
R23	1K	1	Resistor 1%, 1/2W	BRN-BLK-BLK-BRN-BRN
R46	1K	1	Resistor 0.1%, 1/4W	BRN-BLK-BLK-BRN-VIO
R15, R19, R40, R53	2K2	4	Resistor 1%, 1/4W	RED-RED-BLK-BRN-BRN
R13, R28, R37	2K7	3	Resistor 1%, 1/4W	RED-VIO-BLK-BRN-BRN
R25, R27	3K9	2	Resistor 1%, 1/4W	ORG-WHI-BLK-BRN-BRN
R22, R47, R48, R60	4K7	4	Resistor 1%, 1/4W	YEL-VIO-BLK-BRN-BRN
R29	5K1	1	Resistor 1%, 1/4W	GRN-BRN-BLK-BRN-BRN
R14, R38	6K8	2	Resistor 1%, 1/4W	BLU-GRY-BLK-BRN-BRN
R45	6K8	1	Resistor 0.1%, 1/4W	BLU-GRY-BLK-BRN-VIO
R12, R20, R30, R34, R35, R51, R55, R61	10K	8	Resistor 1%, 1/4W	BRN-BLK-BLK-RED-BRN
R11, R36	15K	2	Resistor 1%, 1/4W	BRN-GRN-BLK-RED-BRN
R7, R31, R33, R39, R49, R52, R62	22K	7	Resistor 1%, 1/4W	RED-RED-BLK-RED-BRN
R3	27K	1	Resistor 1%, 1/4W	RED-VIO-BLK-RED-BRN
R41, R42, R43	47K	3	Resistor 1%, 1/4W	YEL-VIO-BLK-RED-BRN
R18, R50	82K	2	Resistor 1%, 1/4W	GRY-RED-BLK-RED-BRN
R1, R2, R6	1M	3	Resistor 1%, 1/4W	BRN-BLK-BLK-YEL-BRN
R10, R26, R32	4M7	3	Resistor 5%, 1/4W	YEL-VIO-BLK-YEL-BRN
C10, C26	47pF	2	Capacitor Ceramic	470
C17	220pF	1	Capacitor Ceramic	221
C19	100nF	1	Capacitor Ceramic	104
C20, C21, C22	1uF	3	Capacitor Ceramic	105
C3, C4	220pF	2	Capacitor Film	220
C1, C2	1nF	2	Capacitor Film	1000
C24	100nF	1	Capacitor Film	0.1
C7	220nF	1	Capacitor Film	0.22
C30	470nF	1	Capacitor Film	u47
C5	1uF	1	Capacitor Film	1u
C8, C11, C23, C25, C27, C28	33uF-35V	6	Capacitor Electro Low ESR, 105°	
C12, C13, C14, C29	100uF-25V	4	Capacitor Electro Low ESR, 105°	
C15, C16	BP100uF-16V	2	Capacitor Electro, Bipolar	
C6, C9, C31, C32, C33, C34	330uF-25V	6	Capacitor Electro Low ESR, 105°	
C18	BP1000uF-16V	1	Capacitor Electro, Bipolar	

L1	6uH	1	Inductor	
D3, D4, D5, D6	1N914	4	Signal diode	914 or 4148
D1, D7, D8	1N4004	3	Rectifier diode	1N4004
D2	Green	1	2 mm LED	
Q1	BF245B	1	N channel FET transistor	
Q2, Q4	BC550C	2	NPN Transistor	
Q3	BC560C	1	PNP Transistor	
U1, U2	TL074CN	2	Quad Op-Amp	TL074CN
U3	TL431AC	1	Precision voltage reference	
A1	SK25	1	Discrete Operational Amplifier	
SW1, SW3, SW4	DPDT	3	Min toggle push switch on/on - white cap	
SW2	DPDT	1	Min toggle push switch on/on - red cap	
RSW1	2 x 6 pos	1	Rotary switch 2 x 6	
JMP1	1x5 pins	1	SIL 2.54 jumper header	
CN1	4 pins	1	SIL 2.54 socket 4 pins	
CN2b, CN3b		2	DIL 2.54 socket 2x10 pins	
CN2a, CN3a		2	DIL 2.54 header 2x10pins 90°	
Jumper		2	Jumper	
IC socket	14 pins	2	IC socket	
DOA socket		7	Pin socket 1mm	
TP1...TP7, V+, V-, 0V		10	Test pin	
P1	10KB	1	Potentiometer	10K LOGB
P2	22KB	1	Potentiometer	22K LOGB
P3	47KB	1	Potentiometer	47K LOGB
P4	2.2MB	1	Potentiometer	2MEG2 LOGB
P7	1K	1	Trimmer potentiometer	
P6	5K	1	Trimmer potentiometer	
P5	10K	1	Trimmer potentiometer	
RLY1		1	Relay DPDT 24V	
Main PCB		1	PCB	
knob		5	Knob	
		1	CP5176 front pannel	
		1	Side plate	
Front pannel assembly	M3x6	4	Black screw countersunk	
PCB assembly	M3x6	6	Screw pan head	
Transfo. Assembly	M3x25	2	Screw pan head	
Various	M3	10	Metal washer	
PCB assembly	M3	4	Lock washer	
Transfo. Assembly	M3	2	Self locking nut	
PCB assembly	M3x15	2	Spacer fem/fem	
PCB assembly	M3x20	2	Spacer fem/fem	
PCB assembly	M3x25	3	Spacer male/fem	
PCB assembly	M3x4	1	Spacer unthreaded	

PCB assembly	M3x6	3	Screw countersunk	
PCB assembly	M3x12	1	Screw countersunk	
Rack mounting	M3x8	2	Black screw countersunk	
T1	CMLI-15/15PCA	1	Line input transformer 1:1	
T2	CMOQ-2S	1	Line output Transformer 1+1:1+1	
Gain reduction meter				
R9, R10	100R	2	Resistor 1%, 1/4W	BRN-BLK-BLK-BLK-BRN
R6, R7, R8	110R	3	Resistor 1%, 1/4W	BRN-BRN-BLK-BLK-BRN
R5	120R	1	Resistor 1%, 1/4W	BRN-RED-BLK-BLK-BRN
R4	130R	1	Resistor 1%, 1/4W	BRN-ORG-BLK-BLK-BRN
R3	150R	1	Resistor 1%, 1/4W	BRN-GRN-BLK-BLK-BRN
R2	180R	1	Resistor 1%, 1/4W	BRN-GRY-BLK-BLK-BRN
R11, R12, R13	220R	3	Resistor 1%, 1/4W	RED-RED-BLK-BLK-BRN
R1	249R	1	Resistor 1%, 1/4W	RED-YEL-WHT-BLK-BRN
R14	270R	1	Resistor 1%, 1/4W	RED-VIO-BLK-BLK-BRN
R15, R18, R19	330R	3	Resistor 1%, 1/4W	ORG-ORG-BLK-BLK-BRN
R16	390R	1	Resistor 1%, 1/4W	ORG-WHT-BLK-BLK-BRN
R17	6K8	1	Resistor 1%, 1/4W	BLU-GRY-BLK-BRN-BRN
R20	10K	1	Resistor 1%, 1/4W	BRN-BLK-BLK-RED-BRN
P1	NC	1	Not connected	
C3	100n-100V	1	Capacitor Ceramic	104
C1, C2	33u-35V	2	Capacitor Electro Low ESR, 105°	
D1...D10	Green	10	High efficiency green LED	
D11...D14	Yellow	4	High efficiency yellow LED	
D15, D16	Red	2	High efficiency red LED	
U1, U2, U3, U4	LM339N	4	Quad comparator	
U5, U6	LM317LZ	2	Positive voltage regulator	
CN1		1	SIL 2.54 socket 1x4 pins	
PCB		1	PCB	
SK25 Discrete Op-Amp				
R12, R13	5R6	2	Resistor 1%, 1/4W	GRN-BLU-BLK-SLV-BRN
R10	22R	1	Resistor 1%, 1/4W	RED-RED-BLK-GLD-BRN
R7	39R	1	Resistor 1%, 1/4W	ORG-WHT-BLK-GLD-BRN
R2, R3, R11	100R	3	Resistor 1%, 1/4W	BRN-BLK-BLK-BLK-BRN
R9	220R	1	Resistor 1%, 1/4W	RED-RED-BLK-BLK-BRN
R1, R4, R5, R8	2K2	4	Resistor 1%, 1/4W	RED-RED-BLK-BRN-BRN
R6	22K	1	Resistor 1%, 1/4W	RED-RED-BLK-RED-BRN
L1	22uH	1	Inductor	RED-RED-BLK-SLV
C1	100pF	1	Capacitor ceramic	101
C2	220pF	1	Capacitor ceramic	221
D1, D2, D5, D6, D7, D8, D9	1N914	7	Signal diode	914 or 4148

D3	Red	1	Red LED	
D4	5.1V	1	Zener diode	BZX55C 5V1
Q1	BC560C	1	PNP small signal transistor	BC560C
Q2, Q3	KSA992	2	PNP small signal transistor	A992
Q4, Q5, Q6	BC550C	3	NPN small signal transistor	BC550C
Q7	BC556C	1	PNP small signal transistor	BC556C
Q8	BC546C	1	NPN small signal transistor	BC546C
Q9	BD139	1	NPN power transistor	BD139
Q10	BD140	1	PNP power transistor	BD140
		6	connecting pin (golden)	
PCB		1	PCB	
Power transistor assembly	M3x12	2	Screw pan head	
Power transistor assembly	M3x20	1	Spacer	
(1) Data can be changed without notice				
(1) Les donnée peuvent être modifiées sans préavis				
Schematic Rev 1.6 - PCB Rev 1.7				
Last modified : 11/09/2019				