



MP66 Parts list (1)

All the components in this list are included in the kit, except the transformers which are optional
Tous les composants de cette liste sont inclus dans le kit sauf les transformateurs qui sont optionnels

Reference	Value	Qty	Description	Marking	Dim (2)	Manuf.
R55, R56, R57, R58	1R1	4	Resistor 1%, 1/4W	BRN-BRN-BLK-SLV-BRN		
R53, R54	7R5	2	Resistor 1%, 1/4W	VIO-GRN-BLK-SLV-RED		
R46, R47	47R	2	Resistor 1%, 1/4W	YEL-VIO-BLK-BRN or YEL-VIO-BLK-GLD-BRN		
R5, R6, R7, R29, R42	150R	5	Resistor 1%, 1/4W	BRN-GRN-BRN-BRN or BRN-GRN-BLK-BLK-BRN		
R16	180R	1	Resistor 1%, 1/4W	BRN-GRY-BRN-BRN or BRN-GRY-BLK-BLK-BRN		
R9, R15, R25, R26	330R	4	Resistor 1%, 1/4W	ORG-ORG-BRN-BRN or ORG-ORG-BLK-BLK-BRN		
R49	390R	1	Resistor 1%, 1/4W	ORG-WHT-BLK-BLK-BRN		
R3, R4	560R	2	Resistor 1%, 1/4W	GRN-BLU-BRN-BRN or GRN-BLU-BLK-BLK-BRN		
R11, R28	1K	2	Resistor 1%, 1/4W	BRN-BLK-RED-BRN or BRN-BLK-BLK-BRN-BRN		
R19, R44	1K2	2	Resistor 1%, 1/4W	BRN-RED-BLK-BRN-BRN		
R27	1K8	1	Resistor 1%, 1/4W	BRN-GRY-BLK-BRN-BRN		
R30	2K2	1	Resistor 1%, 1/4W	RED-RED-RED-BRN or RED-RED-BLK-BRN-BRN		
R38	4K7	1	Resistor 1%, 1/4W	YEL-VIO-RED-BRN or YEL-VIO-BLK-BRN-BRN		
R60	5K1	1	Resistor 1%, 1/4W	GRN-BRN-RED-BRN or GRN-BRN-BLK-BRN-BRN		
RL2	5K6	1	Resistor 1%, 1/4W	GRN-BLU-RED-BRN or GRN-BLU-BLK-BRN-BRN		
R1, R2	6K8	2	Resistor 0.1%, 1/4W	BLU-GRY-BLK-BRN-VIO		
R40, R45	15K	2	Resistor 1%, 1/4W	BRN-GRN-BLK-RED-BRN		
R12, R52	33K	2	Resistor 1%, 1/4W	ORG-ORG-BLK-RED-BRN		
RL1, R20, R39, R41	47K	4	Resistor 1%, 1/4W	YEL-VIO-BLK-RED-BRN		
R48	56K	1	Resistor 1%, 1/4W	GRN-BLU-ORG-BRN or GRN-BLU-BLK-RED-BRN		
R8, R10, R18, R37, R43	100K	5	Resistor 1%, 1/4W	BRN-BLK-YEL-BRN or BRN-BLK-BLK-ORG-BRN		
R31, R32, R33, R34, R35, R36, R50, R51	220K	8	Resistor 1%, 1/4W	RED-RED-YEL-BRN or RED-RED-BLK-ORG-BRN		
R14, R24, R59	1M	3	Resistor 1%, 1/4W	BRN-BLK-GRN-BRN or BRN-BLK-BLK-YEL-BRN		
R22, R23	2M2	2	Resistor 5%, 1/4W	RED-RED-GRN-GLD or RED-RED-BLK-YEL-BRN		
R13, R17, R21	4M7	3	Resistor 1%, 1/4W	YEL-VIO-BLK-YEL-BRN		
C28, C30	10n-500V	2	Capacitor Ceramic	103 or 10n	R5	
C2, C22, C24, C26, C27	100n-100V	5	Capacitor Ceramic	104	R5	
CL1	100p-100V	1	Capacitor Film	100	R5	Wima
C12	330p-100V	1	Capacitor Film	330	R5	Wima
C10	2n2-100V	1	Capacitor Film	2200	R5	Wima
C7, C8	10n-100V	2	Capacitor Film	0,01	R5	Wima
C9	22n-100V	1	Capacitor Film	0.022	R5	Wima
C13, C14	100n-400V	2	Capacitor Film	.1K or 100n	R15	Wima
C6, C11	470n-400V	2	Capacitor Film	0,47	R22.5	Wima
C15	1u-400V	1	Capacitor Film	1,0 uF	R27.5	Wima
C19	1u-50V	1	Capacitor Electro Low ESR, 105°		D5R2	Nichicon
C25	10u-50V	1	Capacitor Electro Low ESR, 105°		D5R2	Nichicon

C20, C21	33u-35V	2	Capacitor Electro Low ESR, 105°		D5R2	Nichicon
C5, C18	120u-25V	2	Capacitor Electro Low ESR, 105°		D6.3R2.5	Nichicon
C1, C3	180u-63V	2	Capacitor Electro Low ESR, 105°		D10R5	Nichicon
C23	1800u-35V	1	Capacitor Electro Low ESR, 105°		D18H20R7.5	Nichicon
C4	10u350V	1	Capacitor Electro Low ESR, 105°		D10H20R5	PAN
C17, C31	22u350V	2	Capacitor Electro Low ESR, 105°		D12.5H20R5	PAN
C16, C29	47u350V	2	Capacitor Electro Low ESR, 105°		D18H20R5	PAN
L3	10uH	1	Inductor	BRN-BLK-BLK-SLV		
L1	47uH	1	Inductor			
L2	0.5A	1	Shielded inductor			
D1, D2, D3, D4, D6, D8, D10	1N914	7	Signal diode	914 or 4148		
D13	1N4004	1	Rectifier diode	1N4004		
D5, D9	Z7V5-0.5W	2	Zener diode	...7V5...		
D11, D12	Z12V-0.5W	2	Zener diode	...12...		
D14	Z20V-1.3W	1	Zener diode	...20...		
D15	MUR160/UF4005	1	Schottky diode	UF4005		
D7	Red/Green	1	2 colors LED, 2 pins		D3	
Q5	BC550C	1	NPN small signal transistor	CTBC550C or C550C		
Q1	TIP126	1	PNP power darlington	TIP126		
Q4	TIP120	1	NPN power darlington	TIP120		
Q2, Q3	2N7000	2	N channel FET transistor	2N7000		
Q6	IRF830	1	N Channel MOSFET	IRF830		
U1, U2	TL074CN	2	Quad Op-Amp	TL074CN		
U3	MAX1771	1	Switching regulator			Maxim
V1	ECC81	1	Dual triode			JJ
V2	ECC82	1	Dual triode			JJ
T1	LL1538	1	Input transformer (1:5)			Lundahl
T2	CMOQ-2S	1	Output transformer (2:1)			Cinemag
SW1	SPDT	1	Min toggle switch on/on, short lever, red			
SW4	SPDT	1	Min toggle switch on/on			
SW2, SW3, SW5	DPDT	3	Min toggle switch on/off/on			
CN1, CN2	2 term	2	PCB terminal blocks		R5	
CN3	26pins	1	IDC box header			
JMP1	1x4 pins	1	SIL pin header		R2.54	
Jumper		2	Jumper		R2.54	
SK466 assembly	2x25 pins	1	DIL pin header 90°		R2.54	
TP1-TP7		7	Test pin		D1	
Tube socket	Noval	2	Tube socket			
P1, P2	2x220KB	2	Potentiometer		L16	Omeg
P3, P4	50K	2	Trimmer pot	503 or 50K		
RLY1, RLY2, RLY3, RLY4		4	Relay DPDT 12V			
Q1, Q2(?) heatsink	21 K/W	2	Heatsink TO220			
PSU shield		1	PSU shield			
Main PCB	MP66-PCB	1	PCB		187x200	

Tubes PCB	SK466	1	PCB		84x37	
Input level knob		1	Knob		D23	
Input level knob		1	Cap		D23	
Output level knob		1	Knob		D16	
Output level knob		1	Cap		D16	
Front pannel		1	MP66 front pannel			
Front pannel assembly	M3x6	2	Stainless st. screw countersunk			
PCB assembly	M3x6	6	Screw pan head			
Transfo. Assembly	M3x25	2	Screw pan head			
Transfo. assembly	M3	6	Metal washer			
PCB, TR assembly	M3	2	Self locking nut			
PCB Assembly		1	Mylar isolating sheet		184x120mm	
Tube PCB assembly		1	Double sided adhesive tape		75mm	
Input transformer assembly		1	Double sided adhesive tape		23mm	

(1) Data can be changed without notice

(2) Rx : spacing between leads or pins=x, Dx : diameter=x, Lx : Pot spindle length=x, Dimensions in mm unless differently stated

(1) Les donnée peuvent être modifiées sans préavis

(2) Rx : distance entre les pattes=x, Dx : diamètre=x, Lx : longueur axe du potentiomètre=x, Dimensions en mm sauf mention contraire

Schematic Rev 1.3

PCB Rev 1.5

Last modified : 07/01/2015



V12V2 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	Dim (2)	Manuf.
C2, C4	100n-100V	2	Capacitor ceramic	104 or 100n	R5	
C1, C3	33u-35V	2	Capacitor Electro Low ESR, 105°		D5R2	
CN1	20pins	1	Female socket DIL			
CN2	26pins	1	IDC box header			
U1	78L15	1	Positive voltage regulator TO92			
U2	79L15	1	Negative voltage regulator TO92			
		2	Nylon spacer 10mm			
	M3x6	2	Screw pan head			
	26 cond.		Ribbon cable		16cm	
	26 pins	2	IDC Cable Socket			
in/out connect		2	Flexible wire 0.5mm ² , Blue		8cm	
in/out connect		2	Flexible wire 0.5mm ² , Red		8cm	
Main PCB		1	PCB		237x126	

(1) Data can be changed without notice

(2) Rx : spacing between leads or pins=x, Dx : diameter=x, Lx : Pot spindle length=x, Dimensions in mm unless differently stated

(1) Les donnée peuvent être modifiées sans préavis

(2) Rx : distance entre les pattes=x, Dx : diamètre=x, Lx : longueur axe du potentiomètre=x, Dimensions en mm sauf mention contraire

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