



MC624 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
R110, R111, R113, R114, R126, R127, R129, R130	12R	8	Resistor 1%, 1/4W	BRN-RED-BLK-GLD-BRN
R61, R73, R85, R97	68R	4	Resistor 1%, 1/4W	BLU-GRY-BLK-GLD-BRN
R109, R124, R131	100R	3	Resistor 1%, 1/4W	BRN-BLK-BLK-BLK-BRN
R59, R71, R83, R95	160R	4	Resistor 1%, 1/4W	BRN-BLU-BLK-BLK-BRN
R134, R135	220R	2	Resistor 1%, 1/4W	RED-RED-BLK-BLK-BRN
R21, R22, R23, R24, R132, R136, R139	330R	7	Resistor 1%, 1/4W	ORG-ORG-BLK-BLK-BRN
R27, R31, R44, R48, R58, R70, R82, R94	620R	8	Resistor 1%, 1/4W	BLU-RED-BLK-BLK-BRN
R56, R68, R80, R92	715R	4	Resistor 1%, 1/4W	VIO-BRN-GRN-BLK-BRN
R53, R65, R77, R89	909R	4	Resistor 1%, 1/4W	WHI-BLK-WHI-BLK-BRN
R51, R63, R75, R87	953R	4	Resistor 1%, 1/4W	WHI-GRN-ORG-BLK-BRN
R54, R66, R78, R90, R105, R108, R112, R121, R125, R128, R133	1K	11	Resistor 1%, 1/2W	BRN-BLK-BLK-BRN-BRN
R52, R64, R76, R88	1K62	4	Resistor 1%, 1/4W	BRN-BLU-RED-BRN-BRN
R28, R29, R33, R45, R46, R50	1K8	6	Resistor 1%, 1/4W	BRN-GRY-BLK-BRN-BRN
R60, R72, R84, R96	3K0	4	Resistor 1%, 1/4W	ORG-BLK-BLK-BRN-BRN
R55, R67, R79, R91	3K16	4	Resistor 1%, 1/4W	ORG-BRN-BLU-BRN-BRN
R137, R138	3K9	2	Resistor 1%, 1/4W	ORG-WHI-BLK-BRN-BRN
R103, R104, R107, R119, R120, R123	4K7	6	Resistor 1%, 1/4W	YEL-VIO-BLK-BRN-BRN
R36, R40	5K1	2	Resistor 1%, 1/4W	GRN-BRN-BLK-BRN-BRN
R62, R74, R86, R98	5K6	4	Resistor 1%, 1/4W	GRN-BLU-BLK-BRN-BRN
R101, R102, R117, R118	6K8	4	Resistor 1%, 1/4W	BLU-GRY-BLK-BRN-BRN
R34, R35, R38, R39, R99, R100, R115, R116	10K	8	Resistor 1%, 1/4W	BRN-BLK-BLK-RED-BRN
R25, R30, R42, R47	22K	4	Resistor 1%, 1/4W	RED-RED-BLK-RED-BRN
R57, R69, R81, R93	24K	4	Resistor 1%, 1/4W	RED-YEL-BLK-RED-BRN
R1...R20, R37, R41	47K	22	Resistor 1%, 1/4W	YEL-VIO-BLK-RED-BRN
Rz1...Rz16	47K	NC	Not connected	
R106, R122	1M	2	Resistor 1%, 1/4W	BRN-BLK-BLK-YEL-BRN
R26, R32, R43, R49	4M7	4	Resistor 5%, 1/4W	YEL-VIO-BLK-YEL-BRN
RN4...RN7	4 x 1K5	4	Resistor network 5 pins	...152...
RN8...RN13	4 x 1K5	6	Resistor network 8 pins	...152...
RN1...RN3	4 x 4K7	3	Resistor network 5 pins	...472...
C54, C55	22pF-50V	2	Capacitor Ceramic R5	22 or 220
C31, C41	47pF-50V	2	Capacitor Ceramic R5	47 or 470
C1, C2, C15, C19, C23, C24, C25, C26	470pF	8	Capacitor Ceramic R5	471

C4, C5, C7, C8, C11, C12, C17, C18, C21, C22, C27, C28, C33, C35, C37, C38, C43, C45, C47...C50, C56...C64	100nF	31	Capacitor Ceramic R5	104
C34, C44	10nF	2	Capacitor Film R5	0.01
C51, C70, C71	33uF-35V	3	Capacitor Electro Low ESR, 105°	
C9, C10, C67, C69	100uF-25V	4	Capacitor Electro Low ESR, 105°	
C29, C30, C39, C40	BP100uF-16V	4	Capacitor Electro, Bipolar	
Cz1...Cz36	BP100u-16V	NC	BP100u-16V	
C66, C68, C72, C73	330uF-25V	4	Capacitor Electro Low ESR, 105°	
C3, C6, C13, C14, C16, C20	BP1000uF-16V	6	Capacitor Electro, Bipolar	
C32, C36, C42, C46	1000uF-25V	4	Capacitor Electro Low ESR, 105°	
C65	3300uF-25V	1	Capacitor Electro Low ESR, 105°	
C52, C53		NC	Not connected	
L1	2x 1mH	1	Common mode Inductor	
XT1	11.0592MHz	1	Crystal	
D37	1N5402	1	Rectifier diode	
D1...D36	1N4004	36	Rectifier diode	1N4004
DISPL1, DISPL2, DISPL3		3	LED 7 Seg CA	
	3 digits	1	Red filter + bezel	
		1cm	neoprene sleeve	
U1, U2, U4, U5	OPA134	4	High performance audio Op-Amp	
U3, U6, U8	LM4562	3	Dual high performance Op-Amp	
U7, U9	LT1206	2	TO220 Current Feedback Amplifier	
U10...U18	TPIC6C595	9	8 bits shift register	
U19	TSOP31238	1	IR receiver	
U20	PIC18F25K20	1	microcontroller	
U21	SN65HVD12P	1	RS485 interface	
U22	78L05	1	Voltage regulator 5V	
U23	78L33	1	Voltage regulator 3.3V	
U24	LM317	1	Positive voltage regulator	
U25	LM337	1	Negative voltage regulator	
		2	TO220 heatsinks	
SW1, SW2, SW5, SW6, SW8...SW10, SW12, SW14	Digitast	8	Digitast Yellow with LED	
SW3, SW4, SW7, SW11, SW13, SW15	Digitast	7	Digitast White with LED	
SW16	Switch	1	Power switch	
CN1...CN4		4	Chassis XLR female	
CN16...CN19		4	Chassis XLR male	
CN5-6, CN7-8, CN14-15, CN20-21, CN22-23, CN26-29		6	Dual stereo Jack socket	
CN13, CN27		2	Stereo jack socket	
		1	6.35 to 3.5 jack adapter	
CN9-12	RCA x4	1	RCA x4	

CN28	SILM 5	NC		
JMP1...JMP8	SILM 3	8		
JMP9	SILM 2	1		
CN30	USB x2	1	USB x2	
CN31		1	DC power input	
CN32		1	Spring terminal x2	
CN24a, CN24b, CN25a, CN25b, CN33a, CN33b	IDCM 2x5	6	IDC male connector	
	IDCF 2x5	6	Ribbon female connector	
CN34a...CN38a	DILM90 2x10	5	DIL 2x10 pins header, 90°	
CN34b...CN38b	DILF 2x10	5	DIL 2x10 female connector	
Jumper	Jumper	8		
IC socket	8 pins	8	IC socket	
IC socket	16 pins	9	IC socket	
IC socket	28 pins narrow	1	IC socket	
DOA socket	Pin socket	7	Pin socket 1mm	
TP1...TP16	Test pin	20	Test pin 1mm	
Ground connection	Ground pin	1	Ground pin 1.3mm	
Ground connection	Ground skt	1	Ground socket 1.3mm	
Ground connection	Solder tag	1		
P1...P4	100K	4	Trimmer potentiometer	
P5	2x 10KA	1	Potentiometer	10K LINA
INC1	Encoder	1	Encoder	
RLY1...RLY39	Relay 12V	39	Relay DPDT 12V	
Main PCB	PCB	1	PCB	
knob	28mm	1	Knob	
knob	15mm	1	Knob	
Front pannel assembly	M3x6	6	Black screw countersunk	
PCB assembly	M3x5	9	Screw pan head	
Ground connection	M3x16	1	Screw pan head	
Ground connection	M3	1	Knurled nut	
XLR assembly	M2.9x6	16	Self taping screw pan head	
Jack assembly	M3x12	7	Self taping screw countersunk	
PCB assembly	M3x5	3	Spacer fem/fem	
PCB assembly	M3x6	6	Spacer fem/fem	
	Ribbon 10C	0.65	Ribbon 10C	
Power switch connection		0.5	Wire 0.5 mm2 red	
Ground connection		0.05	Wire 0.5 mm2 black	
Case		1	Rack case 230mm deep + screws	
Power supply		1	12V adapter	
Switcher-2				
R3, R7, R8	5R6	3	Resistor 1%, 1/4W	GRN-BLU-BLK-GLD-BRN
R4	270R	1	Resistor 1%, 1/4W	RED-VIO-BLK-BLK-BRN

R1	2K2	1	Resistor 1%, 1/4W	RED-RED-BLK-BRN-BRN
R5	3K9	1	Resistor 1%, 1/4W	ORG-WHI-BLK-BRN-BRN
R2	20K	1	Resistor 1%, 1/4W	RED-BLK-ORG-BRN or RED-BLK-BLK-RED-BRN
R6		NC		
C5, C7, C8	1n-50V	3	Ceramic cap	102
C4	470n-50V	1	Ceramic cap	474
C3	1u-50V	1	Ceramic cap	105
C1, C2, C10, C11, C12, C13	330uF-25V	6	Capacitor Electro Low ESR, 105°	
C6		NC		
C9, C14		NC		
L1		NC		
L2, L3	22uH	2	Inductor radial	no marking or 220
D1		NC		
D2, D3	SB160	2	SCHOTTKY rectifier	
U1	LM2586-ADJ	1	Regulator	
T1		1	Transformer	
D1		NC		
		7	Pin 1mm	
		1	Adhesive spacer 4mm	
PCB	REV1.2	1	PCB	
Shield	REV1.1	1	PCB	
(1) Data can be changed without notice				
(1) Les donnée peuvent être modifiées sans préavis				
Schematic Rev 1.2 - PCB Rev 1.2				
Last modified : 09/10/2014				