



MU524 Parts list (1)

All the components in this list are included in the kit

Reference	Value	Qty	Description	Marking
R35, R36	5R6	2	Resistor 1%, 1/4W	GRN-BLU-BLK-SLV-BRN
R39	18R	1	Resistor 1%, 1/4W	BRN-GRY-BLK-GLD-BRN
R16, R37	220R	2	Resistor 1%, 1/4W	RED-RED-BLK-BLK-BRN
R8	470R	1	Resistor 1%, 1/4W	YEL-VIO-BLK-BLK BRN
R13, R14, R20	1k0	3	Resistor 1%, 1/4W	BRN-BLK-BLK-BRN-BRN
R1, R2	2k2	2	Resistor 1%, 1/4W	RED-RED-BLK-BRN-BRN
R30, R32	2k7	2	Resistor 1%, 1/4W	RED-VIO-BLK-BRN-BRN
R3, R4, R12, R25, R27, R31	3k3	6	Resistor 1%, 1/4W	ORG-ORG-BLK-BRN-BRN
R17, R34	4k7	2	Resistor 1%, 1/4W	YEL-VIO-BLK-BRN-BRN
R5, R6, R7, R9, R10, R11, R21, R22, R23, R28, R29	10k	11	Resistor 1%, 1/4W	BRN-BLK-BLK-RED-BRN
R19, R26	33K	2	Resistor 1%, 1/4W	ORG-ORG-BLK-RED-BRN
R15, R24	100K	2	Resistor 1%, 1/4W	BRN-BLK-BLK-ORG-BRN
R38	330K	1	Resistor 1%, 1/4W	ORG-ORG-BLK-ORG-BRN
R18	470K	1	Resistor 1%, 1/4W	YEL-VIO-BLK-ORG-BRN
R33	1M0	1	Resistor 1%, 1/4W	BRN-BLK-BLK-YEL-BRN
C2, C17	47p	2	Capacitor Ceramic	470
C9	100p	1	Capacitor Ceramic	101
C1, C3	470p	2	Capacitor Ceramic	471
C8, C21, C22, C23, C24, C25, C26, C27, C28, C29, C31	100n	11	Capacitor Ceramic	104
C4, C7	1n5	2	Capacitor Film	1500
C15	22n	1	Capacitor Film	0,022
C16	470n	1	Capacitor Film	0,47
C6	2u2	1	Capacitor Film	2u2
C13, C14	BP10u-16V	2	Capacitor Electro, Bipolar	
C30	10u-63V	1	Capacitor Electro, 105°	
C32	33u-35V	1	Capacitor Electro, 105°	
C10, C11, C12	BP100u-16V	3	Capacitor Electro, Bipolar	
C33	100u-25V	1	Capacitor Electro, 105°	
C5, C18	100u-63V	2	Capacitor Electro, 105°	
C19, C20	330u-25V	2	Capacitor Electro, 105°	
L1, L2	22uH	2	Inductor radial	
V1	ECC189	1	Dual remote cutoff triode	
D1, D7, D8	1N4004	3	Rectifier diode	1N4004
D2, D3, D4, D5, D6, D9	1N914	6	NPN small signal diode	

BR1		1	Diode bridge 1A	
Q1, Q2	MPSA29	2	NPN small signal transistor	MPS A29
Q3	2N7000	1	N channel FET transistor	
Q4	IRFZ24	1	N channel MOSFET	
U1, U3, U4	OPA2134	3	Dual low noise Op-Amp	
U2	THAT1646	1	Balanced line driver	
U5	TL431A	1	Voltage reference	
U6	40 to 6V	1	DCDC voltage regulator	
SW1	DPDT	1	Min toggle switch vertical on/off/on	
SW2, SW3, SW4	DPDT	3	Push switch	
T1	UTM2545	1	Mic input transformer	
T2	Z3002C	1	Line input transformer	
V1	Noval	1	Ceramic tube socket	
	8 pins	4	IC sockets	
Transformer holder		2	Header 90° 1x13 pins	
J2a		1	Header 90° 2x5 pins	
Tube holder		2	Header 90° 2x4 pins	
J1a		1	Header 90° 2x10 pins	
J3b		1	Header 2x3 pins	
JMP1		1	Header 1x3 pins	
		2	Jumper	
J2b		1	Socket 2x5 pins	
J1b		1	Socket 2x10 pins	
J3a		1	Socket 2x3 pins	
0V, B+, TP1, TP2, TP3, TP4, TP5, TP6, V+, V		10	Test pin	
P1	10KB	1	Potentiometer	10K LOGB
P2	2K2C	1	Potentiometer	2K2 LOGC
P3	2M2B	1	Potentiometer	2MEG2 LOGB
TR2, TR5	1K	2	Trimmer pot 20 turns	102
TR1	2K	1	Trimmer pot 20 turns	202
TR3, TR4, TR6	5K	3	Trimmer pot 20 turns	502
RLY1		1	Relay submin DPDT 24V	
		1	Sifam meter	
		1	0-20dB gain reduction dial	
		1	PCB (7 parts splitable)	
Knob		1	12.7x6mm knob, Red	
Knob		1	12.7x6mm knob, Grey	
Knob		1	12.7x6mm knob, Blue	
		1	Front pannel	
		1	Side plate	

Transformer T2 assembly		1	1mm rubber spacer	
Meter assembly	M2x14	4	Black screw countersunk	
Meter assembly	M2	4	Nut	
Front pannel assembly	M2.5x6	3	Black screw countersunk	
PCB assembly	M2.5x6	3	Screw pan head	
PCB assembly	M2.5x15	3	Spacer fem/fem	
Front pannel assembly	M3x6	2	Black screw countersunk	
PCB and cover assembly	M3x6	5	Screw countersunk	
Module fixing	M3x8	2	Black screw countersunk	
PCB assembly	M3x25	3	Spacer male/fem	
PCB assembly	M3x25	1	Spacer fem/fem	
PCB assembly	M3x10	1	Screw	
PCB assembly	M3	4	Nut	
Black reference components	PCB main			
Green reference components	PCB Front			
(1) Data can be changed without notice				
Schematic Rev 1.3				
PCB Rev 1.3				
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