

monotron-E Main PCB A2

Jacks: Same as group buy FOH jacks used by a lot of euro builders

Ref Des	Value	Part Number	Source
Conn1	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn2	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn3	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn4	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn5	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn6	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn7	3.5mm Vert Jack	PJ-301B	erthenvar.com
Conn8	3.5mm Vert Jack	PJ-301B	erthenvar.com

Capacitors: Digi-key Part numbers for reference can source anywhere (1206 capacitor kit)

Ref Des	Value	Part Number	Source
C1	0.1uf 10% X7R 1206	311-1179-1-ND	digi-key.com
C2	0.1uf 10% X7R 1206	311-1179-1-ND	digi-key.com
C3	100pf 5% C0G 1206	311-1161-1-ND	digi-key.com
C4	1uf 10% X7R 1206	311-1356-1-ND	digi-key.com
C5	1uf 10% X7R 1206	311-1356-1-ND	digi-key.com
C6	1uf 10% X7R 1206	311-1356-1-ND	digi-key.com
C7	0.1uf 10% X7R 1206	311-1179-1-ND	digi-key.com
C8	1uf 10% X7R 1206	311-1356-1-ND	digi-key.com
C9	100pf 5% C0G 1206	311-1161-1-ND	digi-key.com
C10	100pf 5% C0G 1206	311-1161-1-ND	digi-key.com
C11	10uF 20% Elec 4343	493-2100-1-ND	digi-key.com
C12	4.7nF 10% X7R 1206	399-1230-1-ND	digi-key.com
C13	10uF 20% Elec 4343	493-2100-1-ND	digi-key.com
C14	10uF 20% Elec 4343	493-2100-1-ND	digi-key.com

Diodes: Schottky not required my preference for lower drop

Ref Des	Value	Part Number	Source
D1	LED 3MM RED	751-1132-ND	digi-key.com
D2	Diode Schottky Rec	SL03-GS08CT-ND	digi-key.com
D3	Diode Schottky Rec	SL03-GS08CT-ND	digi-key.com

Headers: Can get a snappable strip of 0.1 straight and RT

Ref Des	Value	Part Number	Source
H1	Hard Wired		
H2	Hard Wired		
H3	Hard Wired		
H4	3 Pin Header Right	3M9468-ND	digi-key.com
H5	3 Pin Header Straight	3M9448-ND	digi-key.com
H6	3 Pin Header Right	3M9468-ND	digi-key.com
H7	16 Pin Shrouded Header	S9171-ND	digi-key.com
H8	3 Pin Header Right	3M9468-ND	digi-key.com

H9	3 Pin Header Right	3M9468-ND	digi-key.com
H10	3 Pin Header Right	3M9468-ND	digi-key.com
H11	4 Pin Header Right	3M9469-ND	digi-key.com

Pots: I use ALPS RK09L the Alpha pots and others fit the same footprint

Ref Des	Value	Part Number	Source
P1	A10k Pot 9mm RT PC	1012A-10kA	smallbearslec.com
P2	B50k Pot 9mm RT PC	1012A-50kB	smallbearslec.com
P3	B50k Pot 9mm RT PC	1012A-50kB	smallbearslec.com
P4	B50k Pot 9mm RT PC	1012A-50kB	smallbearslec.com
P5	B100k Pot 9mm RT PC	1012A-100kB	smallbearslec.com
P6	B100k Pot 9mm RT PC	1012A-100kB	smallbearslec.com
P7	50k Trimpot	3386W-503LF-ND	digi-key.com
P8	1k Trimpot	3386W-102LF-ND	digi-key.com

Resistors: Can get anywhere 5% is fine (1206 ebay resistor kit)

Ref Des	Value	Part Number	Source
R1	54.9k 1% 1206	311-54.9KFRCT-ND	digi-key.com
R2	54.9k 1% 1206	311-54.9KFRCT-ND	digi-key.com
R3	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R4	3k 1% 1206	311-3.00KFRCT-ND	digi-key.com
R5	560 1% 1206	311-560FRCT-ND	digi-key.com
R6	560 1% 1206	311-560FRCT-ND	digi-key.com
R7	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R8	54.9k 1% 1206	311-54.9KFRCT-ND	digi-key.com
R9	54.9k 1% 1206	311-54.9KFRCT-ND	digi-key.com
R10	54.9k 1% 1206	311-54.9KFRCT-ND	digi-key.com
R11	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R12	54.9k 1% 1206	311-54.9KFRCT-ND	digi-key.com
R13	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R14	200k 1% 1206	311-200KFRCT-ND	digi-key.com
R15	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R16	10k 1% 1206	311-10.0KFRCT-ND	digi-key.com
R17	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R18	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R19	560 1% 1206	311-560FRCT-ND	digi-key.com
R20	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R21	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R22	10k 1% 1206	311-10.0KFRCT-ND	digi-key.com
R23	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R24	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R25	1.5k 1% 1206	311-1.50KFRCT-ND	digi-key.com
R26	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R27	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R28	3k 1% 1206	311-3.00KFRCT-ND	digi-key.com
R29	100k 1% 1206	311-100KFRCT-ND	digi-key.com

R30	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R31	560 1% 1206	311-560FRCT-ND	digi-key.com
R32	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R33	560 1% 1206	311-560FRCT-ND	digi-key.com
R34	100k 1% 1206	311-100KFRCT-ND	digi-key.com

IC's

Ref Des	Value	Part Number	Source
U1	LM358 8-SOIC	296-1014-5-ND	digi-key.com
U2	LM358 8-SOIC	296-1014-5-ND	digi-key.com
U3	L78L05ACUTR	497-1183-1-ND	digi-key.com
U4	NE5532 8-SOIC	296-13621-1-ND	digi-key.com

monotron-E break-out PCB A1

Capacitors

Ref Des	Value	Part Number	Source
C1	0.1uf 10% X7R 1206	311-1179-1-ND	digi-key.com
C2	10uf 10% X7R 1206	445-1601-1-ND	digi-key.com

Diodes

Ref Des	Value	Part Number	Source
D1	1N4148 Signal Diode	1N4148WTPMSCT-ND	digi-key.com
D2	1N4148 Signal Diode	1N4148WTPMSCT-ND	digi-key.com

Headers

Ref Des	Value	Part Number	Source
H1	4 Pin Header Right	3M9469-ND	digi-key.com
H2	14 Pin Recpt SMD	609-3771-ND	digi-key.com

Resistors

Ref Des	Value	Part Number	Source
R1	560 1% 1206	311-560FRCT-ND	digi-key.com
R2	100k 1% 1206	311-100KFRCT-ND	digi-key.com
R3	330k 1% 1206	311-330KFRCT-ND	digi-key.com
R4	22M 10% 1206	P22MECT-ND	digi-key.com

IC's: U1 is a low noise Quad Op-Amp other devices may be interesting to try

Ref Des	Value	Part Number	Source
U1	OPA4277 14-SOIC	OPA4277UA	digi-key.com / TI.com

monotron-E Tempco PCB A1

Resistors

Ref Des	Value	Part Number	Source
R1	1.5K 3300PPM 5% 0805	P1.5KCDCT-ND	digi-key.com
R2	1.5K 3300PPM 5% 0805	P1.5KCDCT-ND	digi-key.com
R3	1.5K 3300PPM 5% 0805	P1.5KCDCT-ND	digi-key.com

monotron-E Mod Parts

IC4 header replacement

Ref Des	Value	Part Number	Source	
IC4	14 Pin Header SMD	S9012E-07-ND	digi-key.com	Less Expensive
or				Easier to Use
IC4	14 Pin SO Adapter	PA-SOF-D250-14	logicalsys.com	

