

Component Numera	Value	Description	Role	Q.ty	Manufacturer		Mouser P/N	Manufacturer		Digikey P/N
					Name	Part Number		Name	Part Number	
D2, D3 (Changed)		1A - 50V Diodes	Aux Rectifier	2	<b>Vishay</b>	<b>SBYV27-100-E3/4</b>	<b>625-SBYV27-100-E3/4</b>			
D4		1A - 50V Diodes	Relay driver protection	1	Vishay	1N4001-E3	625-1N4001-E3/54	Fairchild	1N4001	1N4001FSCT-ND
Q2-Q3		NPN Bipolar Transistor	Relay driver	2	Fairchild	BC546	512-BC546	Fairchild	BC546	BC546-ND
Q1		NPN Bipolar Transistor	Relay driver	1	ON Semiconductor	BC639G	863-BC639G	Fairchild	BC639	BC639-ND
ZD1-ZD2		12V 1.3W Zener Diode	V Ref	2	Fairchild	BZX85C12	512-BZX85C12	Fairchild	BZX85C12	BZX85C12-ND
C4, C5	100nF	MKT 100V 7.50mm	Bypass	2	<b>Wima MKP4</b>	<b>MKP4-.1/250/10</b>	<b>505-MKP4.1/250/10</b>			
C7 (Changed)	100nF	MKT 50V / COG 5,00mm	Bypass	1	<b>Wima FKP2</b>	<b>FKP20.01/63/5</b>	<b>505-FKP20.01/63/5</b>			
C17, C18, C19, C20	220nF	MKT 50V / COG 5,00mm	Bypass	4			not used			
C21 (Changed)	22nF	MKT 50V / COG 5,00mm	Signal Bypass	1	<b>Wima FKP2</b>	<b>FKP2-.022/63/2.5</b>	<b>505-FKP20.022/63/2.5</b>			
C10	22pF	MKT 50V / COG 5,00mm	Signal Filter	1	<b>CDE CD10</b>	<b>CD10ED220JO3F</b>	<b>598-CD10ED220JO3F</b>			
C12	220pF	MKT 50V / COG 5,00mm	Signal Filter (Shunt)	1	<b>Wima FKP2</b>	<b>FKP2220/100/2.5</b>	<b>505-FKP2220/100/2.5</b>			
C13	1uF	MKP 50V 22.5 mm	Coupling	1			<b>Mundorf MCAP Zn 1.2 uf 250V</b>			
C9	220uF	Radial 50V Elco 5mm, D.8mm Audio grade	Signal Filter (Shunt)	1	Nichicon Muse KZ	UKZ1H221MHM	647-UKZ1H221MHM	Elna Silmic II	RFS-35V221MI6#5	604-1066-ND
C14	220uF	Radial 50V Elco 5mm, D.8mm	Aux PS Decoupling	1	Nichicon VR	UVR1V221MPD1TD	647-UVR1V221MPD1TD	UCC KMG	EKMG500ELL221MJCS	565-1341-ND
C1, C2	220uF	Radial 50V Elco 5mm, D.8mm Low ESR	35V PS Decoupling	2	Nichicon PW	UPW1H221MPD6	647-UPW1H221MPD6	Panasonic FM	EEU-FM1H221	P12397-ND
C3, C8	10000uF	Snap-In 50V Elco10mm,D.300mm Audio Grade	35V PS Decoupling	2	Cornell Dubilier	SLPX103M050E7P3	598-SLPX103M050E7P3	Panasonic TS-HA	ECO-S1HA103DA	P6690-ND
C15	22uF	Radial 25V Elco 2mm, D.6.5mm	Relay PS Decoupling	1	Nichicon VR	UVR1E220MDD	647-UVR1E220MDD	UCC KMG	EKMG350ELL220ME1D	565-1318-ND
C16	100uF	Radial 25V Elco 5mm, D.8mm	Relay PS Decoupling	1	Nichicon VR	UVR1E101MED	647-UVR1E101MED	UCC KMG	EKMG500ELL101MHB5D	565-1340-ND
C6, C11	100uF	Radial 50V Elco 5mm, D.8mm Low ESR	12V PS Decoupling	2	Nichicon Muse KZ	UKZ1E101MPM	647-UKZ1E101MPM	Elna Silmic II	RFS-35V101MH5#5	604-1065-ND
C34	10pF	COG 200V 5,00mm	LM318 Compensation	1	<b>CDE CD5</b>	<b>CD5CC100JO3F</b>	<b>598-CD5CC100JO3F</b>			
C30	1nF	MKP 100V 5,00mm	Signal Filter	1	<b>Wima FKP2</b>	<b>FKP2-1000/100/5</b>	<b>505-FKP21000/100/5</b>			
C32	150pF	COG 200V 5,00mm	Signal Filter	1	<b>Wima FKP2</b>	<b>FKP2-150/100/2.5</b>	<b>505-FKP2150/100/2.5</b>			
U1		LM318 DIL	Voltage Opamp	1				National Semi	LM318N/NOPB	LM318N-ND
IC1		LM3886	Current Opamp	1				National Semi	LM3886TF/NOPB	LM3886TF-ND
D1, D2, D3, D4		Soft Recovery Diode	Main Rectifier	1	<b>ON Semiconductor</b>	<b>MUR820G</b>	<b>863-MUR820G</b>	ON Semiconductor	MUR820G	MUR820GOS-ND
R5, R8	22K0	1/4W 0.1% 6,3mm	Signal	2	<b>IRC</b>	<b>RC55LF-D-22K1-B-B</b>	<b>66-RC55LF-D-22.1K</b>			
R6, R9	47K0	1/4W 0.1% 6,3mm	Signal	2	<b>IRC</b>	<b>RC55LF-D-47K5-B-B</b>	<b>66-RC55LF-D-47.5K</b>			
R42	47	1/4W 1% 6,3mm Metal Film	Signal	1	<b>KOA Speer MF</b>	<b>MF1/4CL47R0F</b>	<b>660-MF1/4CL47R0F</b>			
R10	390	1/4W 5% 6,3mm Carbon Film	Signal (Shunt)	1	<b>KOA Speer CF</b>	<b>CF1/4CT52R391J</b>	<b>660-CF1/4CT52R391J</b>			
R12, R37	3K3	1/4W 1% 6,3mm Metal Film	Signal	2	<b>KOA Speer MF</b>	<b>MF1/4CC3321F</b>	<b>660-MF1/4CC3321F</b>			
R7	12K0	1/4W 1% 6,3mm Metal Film	Signal	1	<b>KOA Speer MF</b>	<b>MF1/4CC1202F</b>	<b>660-MF1/4CC1202F</b>			
R13	100K	2/4W 1% 6,3mm Metal Film	Signal (Shunt)	1	<b>KOA Speer MF</b>	<b>MF1/4CC1003F</b>	<b>660-MF1/4CC1003F</b>			
R2	10K	1/4W 1% 6,3mm Metal Film	LM3886 Mute	1	<b>KOA Speer MF</b>	<b>MF1/4CC1002F</b>	<b>660-MF1/4CC1002F</b>			
R39	470K	1/4W 1% 6,3mm Metal Film	LM318 Compensation	1	<b>KOA Speer MF</b>	<b>MF1/4CC4703F</b>	<b>660-MF1/4CC4703F</b>			
R43	22K	1/4W 1% 6,3mm Metal Film	LM318 Compensation	1	<b>KOA Speer MF</b>	<b>MF1/4CC2212F</b>	<b>660-MF1/4CC2212F</b>			
R11 (See note)	1	1/4W 5% 6,3mm Carbon Film	Shunt to power ground	1	<b>KOA Speer SPR</b>	<b>SPRX2C1R0J</b>	<b>660-SPRX2C1R0J</b>			
R11 (Alternate code, perfect fit)	1	1/4W 5% 6,3mm Carbon Film	Shunt to power ground	1	<b>KOA Speer CF</b>	<b>CF1/4CT52R1R0J</b>	<b>660-CF1/4CT52R1R0J</b>			
R19	10K	1/4W 1% 6,3mm Metal Film	Speaker Protection	1	<b>KOA Speer MF</b>	<b>MF1/4CC1002F</b>	<b>660-MF1/4CC1002F</b>			
R23	6K8	1/2W 5% 9mm Metal Film	Speaker Protection	1	<b>KOA Speer MF</b>	<b>MF1/2DC6811F</b>	<b>660-MF1/2DC6811F</b>			
R22	8K2	1/4W 1% 6,3mm Metal Film	Speaker Protection	1	<b>KOA Speer MF</b>	<b>MF1/4CC8251F</b>	<b>660-MF1/4CC8251F</b>			
R20	47K	1/4W 1% 6,3mm Metal Film	Speaker Protection	1	<b>KOA Speer MF</b>	<b>MF1/4CC4702F</b>	<b>660-MF1/4CC4702F</b>			
R15, R16	75K	1/4W 1% 6,3mm Metal Film	Speaker Protection	2	<b>KOA Speer MF</b>	<b>MF1/4CC7502F</b>	<b>660-MF1/4CC7502F</b>			
R21	220K	1/4W 1% 6,3mm Metal Film	Speaker Protection	1	<b>KOA Speer MF</b>	<b>MF1/4CC2213F</b>	<b>660-MF1/4CC2213F</b>			
R1, R4	1K	3W 5% 16mm (2W)	35V PS Decoupling	2	<b>KOA Speer SPR3</b>	<b>SPR3CT631R102J</b>	<b>660-SPR3CT631R102J</b>			
R1, R4 (Metal film alternate code)	1K	3W 5% 16mm (2W)	35V PS Decoupling	2	<b>KOA Speer MOS3</b>	<b>MOS3CT631R102J</b>	<b>660-MOS3CT631R102J</b>			
R14	470	1W 5% 10mm (2W)	Led PS Decoupling	1	<b>KOA Speer MOS1</b>	<b>MOS1CT52R471J</b>	<b>660-MOS1CT52R471J</b>			
R3	0,47	5W WW 20x10 Ceramic case	Signal	1	Caddock	MP915-0.5-1%	684-MP915-0.5	Caddock	MP915-0.5-1%	MP915-0.50F-ND
R3 heatsink				1	Aavid Thermalloy	504222B00000G	532-504222B00	Aavid Thermalloy	504222B00000G	HS104-2-ND
R3 heatsink - much smaller alternate – In my setup works fine but USE AT YOUR OWN RISK				1	Aavid Thermalloy	577202B00000G	532-577202B00	Aavid Thermalloy	577202B00000G	HS107-ND
RELAY1		24VDC 2sc 8A-250V	Speaker Protection	1	Omron	G5LE-14-DC24	653-G5LE-14-DC24	Omron	G5LE-14-DC24	Z1013-ND
PL1-8		Faston Connectors (PCB Mount)	Connector	5	<b>Keystone Electronics</b>	<b>1287</b>	<b>534-1287</b>	Tyco Electronic	62409-1	A24742-ND
FPL1-8		Faston Female connectors	Connector	5	<b>Molex</b>	<b>19003-0001</b>	<b>538-19003-0001</b>	Molex	19003-0001	WM18237-ND
IGND_IN		Pin Strip Headers (gold plated)	Connector	1	<b>Molex</b>	<b>22-11-2022</b>	<b>538-22-11-2022</b>			
LED		Pin Strip Headers (tin)	Connector	1	<b>Molex</b>	<b>22-23-2021</b>	<b>538-22-23-2021</b>			
		Phosphor Bronze/gold plated Contacts	Pin	4	<b>Molex</b>	<b>08-65-0816</b>	<b>538-08-65-0816</b>			
		Receptacle Housings	Pin's housing	2	<b>Molex</b>	<b>10-11-2023</b>	<b>538-10-11-2023</b>			

The Recommended R11 is a KOA SPR AKA Kiwame, it's bigger than the original part so it must be mounted using C20 ground pin

Some shunt resistors are indicated as carbon film since they sound better than metal film in these positions

All signal resistors in blue are good candidates for 'Audio Grade' ones like PRP or Takman – PRP more lively, punchy, Takmans more relaxed and sweet

Except for R10 where I recommend a Takman REX, PRPs are recommend as audio grade resistors.

All resistors in green could be candidates for 'Audio Grade' ones like PRP or Takman too

This bom is for ONE (1) monoblock