

Component Numera	Value	Description	Role	Q.ty	Manufacturer		Mouser P/N	Manufacturer		Digikey P/N
					Name	Part Number		Name	Part Number	
D2, D3		1A - 50V Diodes	Aux Rectifier	2	Vishay	SBYV27-100-E3/4	625-SBYV27-100-E3/4			
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	Wima MKP4	MKP4-.1/250/10	505-MKP4.1/250/10			
C7	100nF	MKT 50V / COG 5.00mm	Bypass	1	Wima MKP2	MKP2-.1/100/5	505-MKP20.1/100/5			
C7 (Alternative code)	220nF	MKT 50V / COG 5.00mm	Bypass	1	Wima MKS2	MKS2-0.22/63/10	505-MKS2.22/63/10			
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	Wima FKP2	FKP2-.022/63/2.5	505-FKP20.022/63/2.5			
C10	22pF	MKT 50V / COG 5.00mm	Signal Filter	1	CDE CD10	CD10ED220JO3F	598-CD10ED220JO3F			
C12	220pF	MKT 50V / COG 5.00mm	Signal Filter (Shunt)	1	Wima FKP2	FKP2220/100/2.5	505-FKP2220/100/2.5			
C13	1uF	MKP 50V 22.5 mm	Coupling	1			Mundorf MCAP Zn 1.2 uf 250V			
C9	220uF	Radial 50V Elco 5mm, D.8mm Audio grade	Signal Filter (Shunt)	1	Nichicon Muse KZ	UKZ1H221MHM	647-UKZ1H221MHM	Elna Silmic II	RFS-35V221M6#5	604-1066-ND
C14	220uF	Radial 50V Elco 5mm, D.8mm	Aux PS Decoupling	1	Nichicon VR	UVR1V221MPD1TD	647-UVR1V221MPD1TD	UCC KMG	EKMGS500ELL221MJC5S	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 Elco 10mm, 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	EKMGS350ELL220ME11D	565-1318-ND
C16	100uF	Radial 25V Elco 5mm, D.8mm	Relay PS Decoupling	1	Nichicon VR	UVR1E101MED	647-UVR1E101MED	UCC KMG	EKMGS500ELL101MHB5D	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	CDE CD10	CD10CD100JO3F	598-CD10CD100JO3F			
C30	1nF	MKP 100V 5.00mm	Signal Filter	1	Wima FKP2	FKP2-1000/100/5	505-FKP21000/100/5			
C32	150pF	COG 200V 5.00mm	Signal Filter	1	Wima FKP2	FKP2-150/100/2.5	505-FKP2150/100/2.5			
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	ON Semiconductor	MUR820G	863-MUR820G	ON Semiconductor	MUR820G	MUR820GOS-ND
R5, R8	22K0	1/4W 0.1% 6.3mm	Signal	2	IRC	RC55LF-D-22K1-B-B	66-RC55LF-D-22.1K			
R6, R9	47K0	1/4W 0.1% 6.3mm	Signal	2	IRC	RC55LF-D-47K5-B-B	66-RC55LF-D-47.5K			
R42	47	1/4W 1% 6.3mm Metal Film	Signal	1	KOA Speer MF	MF1/4CL47R0F	660-MF1/4CL47R0F			
R10	390	1/4W 5% 6.3mm Carbon Film	Signal (Shunt)	1	KOA Speer CF	CF1/4CT52R391J	660-CF1/4CT52R391J			
R12, R37	3K3	1/4W 1% 6.3mm Metal Film	Signal	2	KOA Speer MF	MF1/4CC3321F	660-MF1/4CC3321F			
R7	12K0	1/4W 1% 6.3mm Metal Film	Signal	1	KOA Speer MF	MF1/4CC1202F	660-MF1/4CC1202F			
R13	100K	1/4W 1% 6.3mm Metal Film	Signal (Shunt)	1	Caddock	MK132V-100K-1%	684-MK132V-100K			
R13 (Alternate cheap code)	100K	1/4W 2% 6.3mm Carbon Film	Signal (Shunt)	1	KOA Speer CF	CF1/4CT52R104J	660-CF1/4CT52R104J			
R2	10K	1/4W 1% 6.3mm Metal Film	LM3886 Mute	1	KOA Speer MF	MF1/4CC1002F	660-MF1/4CC1002F			
R39	470K	1/4W 1% 6.3mm Metal Film	LM318 Compensation	1	KOA Speer MF	MF1/4CC4703F	660-MF1/4CC4703F			
R43	22K	1/4W 1% 6.3mm Metal Film	LM318 Compensation	1	KOA Speer MF	MF1/4CC2212F	660-MF1/4CC2212F			
R11 (leads must be bent to fit)	1	1/4W 5% 6.3mm Carbon Film	Shunt to power ground	1	KOA Speer SPR	SPRX2C1R0J	660-SPRX2C1R0J			
R11 (Alternate code, perfect fit)	1	1/4W 5% 6.3mm Carbon Film	Shunt to power ground	1	KOA Speer CF	CF1/4CT52R1R0J	660-CF1/4CT52R1R0J			
R19	10K	1/4W 1% 6.3mm Metal Film	Speaker Protection	1	KOA Speer MF	MF1/4CC1002F	660-MF1/4CC1002F			
R23	6K8	1/2W 5% 9mm Metal Film	Speaker Protection	1	KOA Speer MF	MF1/2DC6811F	660-MF1/2DC6811F			
R22	8K2	1/4W 1% 6.3mm Metal Film	Speaker Protection	1	KOA Speer MF	MF1/4CC8251F	660-MF1/4CC8251F			
R20	47K	1/4W 1% 6.3mm Metal Film	Speaker Protection	1	KOA Speer MF	MF1/4CC4702F	660-MF1/4CC4702F			
R15, R16	75K	1/4W 1% 6.3mm Metal Film	Speaker Protection	2	KOA Speer MF	MF1/4CC7502F	660-MF1/4CC7502F			
R21	220K	1/4W 1% 6.3mm Metal Film	Speaker Protection	1	KOA Speer MF	MF1/4CC2213F	660-MF1/4CC2213F			
R1, R4	1K	3W 5% 16mm (2W)	35V PS Decoupling	2	KOA Speer MOS3	MOS3CT631R102J	660-MOS3CT631R102J	Vishay PR02	PR02000201001JR500	PPC1.0KW-2CT-ND
R1, R4 (Carbon alternate code)	1K	3W 5% 16mm (2W)	35V PS Decoupling	2	KOA Speer SPR3	SPR3CT631R102J	660-SPR3CT631R102J			
R14	470	1W 5% 10mm (2W)	Led PS Decoupling	1	KOA Speer MOS1	MOS1CT52R471J	660-MOS1CT52R471J	Vishay PR01	PR01000104700JR500	PPC470W-1CT-ND
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 (Alternate code)	0.47	5W WW 20x10 Ceramic case	Signal	1				Mills	MRA05-.47-1%	MRA05-.47-ND
R3 heatsink (only for Caddocks)				1	Aavid Thermalloy	504222B00000G	532-504222B00	Aavid Thermalloy	504222B00000G	HS104-2-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	Keystone Electronics	1287	534-1287	Tyco Electronic	62409-1	A24742-ND
FPL1-8		Faston Femail connectors	Connector	5	Molex	19003-0001	538-19003-0001	Molex	19003-0001	WM18237-ND
IGND_IN Connector		Pin Strip Headers (gold plated)		1	Molex	22-11-2022	538-22-11-2022			
LED Connector		Pin Strip Headers (tin)		1	Molex	22-23-2021	538-22-23-2021			
		Phosphor Bronze/gold plated Contacts		4	Molex	08-65-0816	538-08-65-0816			
		Receptacle Housings		2	Molex	10-11-2023	538-10-11-2023			

All shunt resistors are indicated as carbon film, metal film alternatives no more present because of positive feedback about carbons

All signal resistors in blue are good candidates for 'Audio Grade' ones like PRP or Takman

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

This bom is for ONE monoblock