

| Component | Value | Description | Role | Q.ty | Manufacturer | | Mouser P/N | Digikey P/N | European alternatives for Digikey | | | | |
|--|-------------------|--|-------------------------|------|-----------------------------|--------------------|-------------------------------------|----------------|--|--------------|---------------|----------------|----------------|
| | | | | | Name | Part Number | | | RS Components P/N | Same? | Distrelec P/N | Same? | |
| D2, D3 (Changed) | | 1A - 50V Diodes | Aux Rectifier | 2 | Vishay | SBYV27-100-E3/4 | 625-SBYV27-100-E3/4 | | 629-8843 (5 Pack) | Y | 601737 | Diotec FE1D | |
| D4 | | 1A - 50V Diodes | Relay driver protection | 1 | Vishay /Fairchild | 1N4001-E3 | 625-1N4001-E3/54 | 1N4001FSC-TD | 628-8931 (10 Pack) | Y | 603560 | ? | |
| Q2-Q3 | | NPN Bipolar Transistor | Relay driver | 2 | Fairchild | BC546 | 512-BC546 | BC546-ND | 544-9292 (5 Pack) | Y | 610356 | ? | |
| Q1 | | NPN Bipolar Transistor | Relay driver | 1 | ON Semiconductor /Fairchild | BC639G | 863-BC639G | BC639-ND | 545-2276 | Y | 610378 | ? | |
| ZD1-ZD2 | | 12V 1.3W Zener Diode | V Ref | 2 | Fairchild | BZX85C12 | 512-BZX85C12 | BZX85C12-ND | 812-487 | Y | 600932 | Y | |
| C4, C5 | 100nF | MKT 100V 7,50mm | Bypass | 2 | Wima MKP4 | MKP4-.1/250/10 | 505-MKP4.1/250/10 | | Order from Banzai Music | | | | |
| C7 (Changed) | 10-22nF | MKT 50V / COG 5,00mm | Bypass | 1 | Wima FKP2 | FKP2C021001G00JSSD | 505-FKP20.01/63/5 | | 115-758 | Y | 828229 | 2.5% | |
| 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 | | Order from Banzai Music | | 828231 | 2.5% | |
| C10 | 22pF | MKT 50V / COG 5,00mm | Signal Filter | 1 | CDE CD10 | CD10ED220J03F | 598-CD10ED220J03F | | Order from Banzai Music | | | | |
| C12 | 220pF | MKT 50V / COG 5,00mm | Signal Filter (Shunt) | 1 | Wima FKP2 | FKP2220/100/2.5 | 505-FKP2220/100/2.5 | | 484-1984 | 5% | 828219 | Y | |
| C13 | 1uF | MKP 50V 22,5 mm | Coupling | 1 | Mundorf MCAP Zn | 1.2 uf 250V | Order from PartsConnexion or others | | Order from HiFi Collective or Banzai Music | | | | |
| C9 | 220uF | Radial 50V Elco 5mm, D.8mm Audio grade | Signal Filter (Shunt) | 1 | Elna Silmic II | RFS-35V221M6#5 | | 604-1066-ND | Order from HiFi Collective or Banzai Music | | | | |
| C14 | 220uF | Radial 50V Elco 5mm, D.8mm | Aux PS Decoupling | 1 | Nichicon VR | UVR1H221MPD1TD | 647-UVR1H221MPD1TD | | 228-6919 (5 pack) | Panasonic CA | 802452 | NCC SMG | |
| C1, C2 | 220uF | Radial 50V Elco 5mm, D.8mm Low ESR | 35V PS Decoupling | 2 | Panasonic FC | 667-EEU-FC1J221S | | P12397-ND | 526-1660 (5 Pack) | Y | 818676 | Elna RJH | |
| C3, C8 | 10000uF | Snap-In 50V Elco10mm,D.300mm Audio Grade | 35V PS Decoupling | 2 | Mundorf M-Lythic AG (MPLI) | 10000uF 63V (30mm) | Order from PartsConnexion or others | | 339-6887 | Y | 818884 | Elna LAH | |
| C15 | 22uF | Radial 25V Elco 2mm, D.6.5mm | Relay PS Decoupling | 1 | Nichicon VR | UVR1E220MDD | 647-UVR1E220MDD | | 228-6767 | Panasonic CA | 802449 | NCC SMG | |
| C16 | 100uF | Radial 25V Elco 5mm, D.8mm | Relay PS Decoupling | 1 | Nichicon VR | UVR1E101MED | 647-UVR1E101MED | | 228-6767 (5 Pack) | Panasonic CA | 802451 | NCC SMG | |
| C6, C11 | 100uF | Radial 50V Elco 5mm, D.8mm Low ESR | 12V PS Decoupling | 2 | Elna Cerafine | 100uF 35V | Order from PartsConnexion or others | | Order from HiFi Collective or others | | | | |
| C34 | 10pF | COG 200V 5,00mm | LM318 Compensation | 1 | CDE CD5 | CD5CC100J03F | 598-CD5CC100J03F | | Order from Banzai Music | | | | |
| C30 | 1nF | MKP 100V 5,00mm | Signal Filter | 1 | Wima FKP2 | FKP2-1000/100/5 | 505-FKP21000/100/5 | | 484-2038 | Y | 828223 | 2.5% | |
| C32 | 150pF | COG 200V 5,00mm | Signal Filter | 1 | Wima FKP2 | FKP2-150/100/2.5 | 505-FKP2150/100/2.5 | | 115-641 | 5% | 828218 | 2.5% | |
| U1 | | LM318 DIL | Voltage Opamp | 1 | National Semi | LM318N/NOPB | | LM318N-ND | 461-042 (10 pack) | Y | 640727 | Y | |
| IC1 | | LM3886 | Current Opamp | 4 | National Semi | LM3886TF/NOPB | | LM3886TF-ND | 534-2961 | Y | 640447 | Y | |
| DR1, DR2, DR3, DR4 | | Soft Recovery Diode | Main Rectifier | 4 | ON Semiconductor | MUR820G | 863-MUR820G | MUR820GOS-ND | 688-2108 (5 pack) | Taiwan Semi | 603597 | NXP BYW29 | |
| R5, R8 | 22K0 | 1/4W 0.1% 6,3mm | Signal | 2 | IRC | RC55LF-D-22K1-B-B | 66-RC55LF-D-22.1K | | 167-052 (5 Pack) | Welwyn RC55Y | 714687 | Vishay SMA0207 | |
| R6, R9 | 47K0 | 1/4W 0.1% 6,3mm | Signal | 2 | IRC | RC55LF-D-47K5-B-B | 66-RC55LF-D-47.5K | | 167-377 (5 Pack) | Welwyn RC55Y | 714705 | Vishay SMA0207 | |
| R42 | 47 | 1/4W 1% 6,3mm Metal Film | Signal | 1 | KOA Speer MF | MF1/4CCT52R47R0F | 660-MF1/4CCT52R47R0F | | 683-3758 (25 Pack) | Vishay MSR25 | 714049 | Vishay SMA0207 | |
| R10 | 390 | 1/4W 2% 6,3mm Carbon Film | Signal (Shunt) | 1 | KOA Speer CF | CF1/4CT52R391J | 660-CFS1/4CT52R391G | | 131-205 (10 Pack) | Tyco CFR25 | 700020 | CFR25RD14S | |
| R12, R37 | 3K3 | 1/4W 1% 6,3mm Metal Film | Signal | 2 | KOA Speer MF | MF1/4CC3321F | 660-MF1/4CC3321F | | 683-3629 (25 Pack) | Vishay MSR25 | 714103 | Vishay SMA0207 | |
| R7 | 12K0 | 1/4W 1% 6,3mm Metal Film | Signal | 1 | KOA Speer MF | MF1/4CC1202F | 660-MF1/4CC1202F | | 683-2989 (25 Pack) | Vishay MSR25 | 714123 | Vishay SMA0207 | |
| R13 | 100K | 1/4W 2% 6,3mm Carbon Film | Signal (Shunt) | 1 | KOA Speer MF | CFS1/4CT52R104G | 660-CFS1/4CT52R104G | | | Tyco CFR25 | 700049 | CFR25RD14S | |
| R2 | 10K | 1/4W 1% 6,3mm Metal Film | LM3886 Mute | 1 | KOA Speer MF | MF1/4CC1002F | 660-MF1/4CC1002F | | 683-2939 (25 Pack) | Vishay MSR25 | 714115 | Vishay SMA0207 | |
| R39 | 470K | 1/4W 1% 6,3mm Metal Film | LM318 Compensation | 1 | KOA Speer MF | MF1/4CC4703F | 660-MF1/4CC4703F | | 683-3730 (25 Pack) | Vishay MSR25 | 714173 | Vishay SMA0207 | |
| R43 | 22K | 1/4W 1% 6,3mm Metal Film | LM318 Compensation | 1 | KOA Speer MF | MF1/4CC2212F | 660-MF1/4CC2212F | | 683-3730 (25 Pack) | Vishay MSR25 | 714132 | Vishay SMA0207 | |
| R11 (See note) | 1 | 1/4W 5% 6,3mm Carbon Film | Shunt to power ground | 1 | KOA Speer SPR2 | SPRX2C1R0J | 660-SPRX2C1R0J | | - | | | | |
| R19 | 10K | 1/4W 1% 6,3mm Metal Film | Speaker Protection | 1 | KOA Speer MF | MF1/4CC1002F | 660-MF1/4CC1002F | | Already ordered for R2 | | Vishay MSR25 | 714115 | Vishay SMA0207 |
| R23 | 6K8 | 1/2W 5% 9mm Metal Film | Speaker Protection | 1 | KOA Speer MF | MF1/2DC6811F | 660-MF1/2DC6811F | | 149-795 (10 Pack) | Vishay MSR25 | 714111 | Vishay SMA0207 | |
| R22 | 8K2 | 1/4W 1% 6,3mm Metal Film | Speaker Protection | 1 | KOA Speer MF | MF1/4CC8251F | 660-MF1/4CC8251F | | 148-714 (10 Pack) | Tyco LR1F | 714113 | Vishay SMA0207 | |
| R20 | 47K | 1/4W 1% 6,3mm Metal Film | Speaker Protection | 1 | KOA Speer MF | MF1/4CC4702F | 660-MF1/4CC4702F | | 148-893 (10 Pack) | Tyco LR1F | 714140 | Vishay SMA0207 | |
| R15, R16 | 75K | 1/4W 1% 6,3mm Metal Film | Speaker Protection | 2 | KOA Speer MF | MF1/4CC7502F | 660-MF1/4CC7502F | | 148-944 (10 Pack) | Tyco LR1F | 714145 | Vishay SMA0207 | |
| R21 | 220K | 1/4W 1% 6,3mm Metal Film | Speaker Protection | 1 | KOA Speer MF | MF1/4CC2213F | 660-MF1/4CC2213F | | 149-060 (10 Pack) | Tyco LR1F | 714165 | Vishay SMA0207 | |
| R1, R4 | 1K | 3W 5% 16mm (2W) | 35V PS Decoupling | 2 | KOA Speer SPR3 | SPR3CT631R102J | 660-SPR3CT631R102J | | 683-5887 (10 Pack) | Vishay PR03 | 713633 | Vishay PR03 | |
| R14 | 470 | 1W 5% 10mm (2W) | Led PS Decoupling | 1 | KOA Speer MOS1 | MOS1CT52R471J | 660-MOS1CT52R471J | | 683-5518 (10 Pack) | Vishay PR01 | 715840 | Vishay SMA0414 | |
| R3 | 0,47 | 5W WW 20x10 Ceramic case | Signal | 1 | Caddock | MP915-0.5-1% | 684-MP915-0.5 | MP915-0.50F-ND | 320-4700 | Y | 727127 | Caddock MP930 | |
| R3 heatsink | | | | 1 | Aavid Thermalloy | 504222B00000G | 532-504222B00 | 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 | HS107-ND | | - | | | |
| RELAY1 | 24VDC 2sc 8A-250V | | Speaker Protection | 1 | Omron | G5LE-14-DC24 | 653-G5LE-14-DC24 | Z1013-ND | 369-488 | Y | - | - | |
| RELAY1 (alternate code – not sealed) | 25VDC 2sc 8A-250V | | Speaker Protection | 1 | Omron | G5LE-1-DC24 | 653-G5LE-1-DC24 | Z1016-ND | 399-8231 (5 Pack) | Y | 400069 | Y | |
| PGND, AC1, AC2 | | Faston Connectors (PCB Mount) | Power connection | 5 | Keystone / Tyco | 1287 | 534-1287 / 62409-1 | A24742-ND | 284-8466 (100 Pack) | Y | 450396 | Nude Brass | |
| Connector | | Faston Female connectors | Power connection | 5 | Molex | 19003-0001 | 538-19003-0001 | WM18237-ND | 2509189196 (50 pack) | Y | 116483 | Nude | |
| IGND_IN | | Pin Strip Headers (gold plated) | Signal connection | 1 | Molex | 22-11-2022 | 538-22-11-2022 | | 679-5515 (10 Pack) | Y | 114620 | Tin plated | |
| LED | | Pin Strip Headers (tin) | Signal connection | 1 | Molex | 22-23-2021 | 538-22-23-2021 | | 679-5583 (10 Pack) | Y | 114620 | Y | |
| Molex pin | | Phosphor Bronze/gold plated Contacts | Signal connection | 4 | Molex | 08-65-0816 | 538-08-65-0816 | | 172-9178 (100 Pack) | Brass type | 114661 | Brass type | |
| Molex housing | | Receptacle Housings | Signal connection | 2 | Molex | 10-11-2023 | 538-10-11-2023 | | 679-5173 (10 Pack) | Y | 114600 | Y | |
| Spacer | | Metric Hex Spacer | PCB Mount | 4 | Harwin | R30-1011002 | 855-R30-1011002 | | | | 340946 | Y | |
| Screw | | M3 steel screw | PCB Mount | 8 | Keystone | 29311 | 534-29311 | | | | 348305 | Y | |

Supplier P/Ns in **Bold** are the from the preferred source (usually cheaper or for availability for that particular P/N).

All resistors in blue are good candidates for 'Audio Grade' alternates like PRP or Takman, the 0.1% ones must be matched by hand in this case.

C9 with its bypass is very good but a BlackGate Standard 220uF 16V is even a bit better. Don't buy C21 if you'll use the BG.

Mundorf Zn is the only cap that sounds as similar as DC-Coupling as possible. If you want to spend less a soviet K73-16 is a nice alternative

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

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

Except for R10 where I recommend a Takman REX, PRPs are recommended. An all PRPs config is also good.

PRP are more lively, punchy, Takmans are more relaxed and sweet, all of them are a nice improvement over KOAs CF and MF.

This bom is for ONE (1) monoblock

For Audio Grade components:

Part Connexion (PRP, Takman, BlackGate, Mundorf Zn), Sonicraft (PRP, Takman, BlackGate),DIYHiFi Supply (Takman and Obbligato)

For European builders:

The most convenient thing to do is to buy all you can from Mouser trying to reach 75€ to have free shipping and the remaining (indicated in **bold**)

from RS Components/Distelec and Banzai effects.

Buying all parts from RS Components/Distelec is simply impossible and MUCH more costly (higher prices and minimum q.ty).

Nevertheless all remaining RS/Distelec part numbers for each component are indicated in gray for reference.

Where possible the RS/Distelec P/N refers to the same component of the BOM, refer to the next column.