

Position					Suggested Best Part		Mouser	
Part	Value	Rating	Package	Q.ty	Manufacturer	Part	Order #	Notes
<b>Amplifier</b>								
C1, C2	220uf	50V	E7,5-16	2	Panasonic	FM	667-EEU-FM1H221	
C4	100nf	250V	C10B5	1	Wima	MKP4	505-MKP4.1/250/10P	
C7	10nf	50V	C5B6.5	1	Wima	FKP2	505-FKP20.01/100/2.5	
C9	220uF	50V	E7,5-16	1	Nichicon	FG	647-UFG1H221MHM	
C10	22pf		C5B3.5	1	CDE	CD10	598-CD10ED220JO3F	
C10 (Alternate comp.)	33pF		C5B3.5	1	CDE	CD10	598-CD10ED330JO3F	
C12	220pf	100V 2.5%	C5B4.5	1	Wima	FKP2	505-FKP2220/100/2.5	
C13	1uF	250V	Axial	1	Vishay	V-735P	75-V735P105X9200L	
C30	1nf	100V	C5B4.5	1	Wima	FKP2	505-FKP21000/100/2.5	
C32	150pf	100V 2.5%	C5B4.5	1	Wima	FKP2	505-FKP2150/100/2.5	
C34	10pf	50V	C0805	1	Kemet	C0G	80-C0805C100G5G	
C34 (Alternate comp.)	27pf	50V	C0805	1	Kemet	C0G	80-C0805C270F5G	
D1, D2	BAV99		SOT23	2	NXP	BAV-99W	771-BAV99W-T/R	
D3	27V	1/2W	SOD80C	1	NXP	BZV55	771-BZV55-C27115	
IC1	LM318D		SO8	1	NatSemi	LM318M	926-LM318M/NOPB	
IC2	LM3886TF		TO220-11	1	NatSemi	LM3886TF	926-LM3886TF/NOPB	
R2	10K	1/4W 2%	R1206	1	Vishay	CMA0204	594-CMA02040X1002GB3	
R3	0R47	5W	TO220	1	Xicon	PRM5	280-PRM5-0.47-RC	
R5, R8	22K	1/4W 0.1%	R1206	2	Susumu	RG32	754-RG3216P-2202-BT5	
R6, R9	47K	1/4W 0.1%	R1206	2	Susumu	RG32	754-RG3216P-4702-BT5	
R7	12K	1/2W 1%	R1206	1	Susumu	RG32	754-RG3216P-1202-BT5	
R10	390	1/2W 1%	0309/12	1	KOA Speer	CF1/2	660-CF1/2C391J	
R11	1	1/4W 2%	0410/15	1	KOA Speer	SPR2	660-SPRX2C1R0J	
R12, R37	3K3	1/2W 1%	R1206	2	Susumu	RG32	754-RG2012P-332DT5	RG20 (0805)
R13	100K	1/2W 1%	B	1	KOA Speer	CF1/2	660-CF1/2C104J	
R39	470K	1/4W 2%	R0805	1	Susumu	RG20	754-RG2012P-474-BT5	
R43	22K	1/4W 2%	R0805	1	Susumu	RG20	754-RG2012P-223DT5	
<b>Power Supply</b>								
C101, C201	10,000uf	50V	EB35D	2	Panasonic	TS-HA	667-ECO-S1HA103DA	
C102, C202 (Optional)	100uF	35V	E5-10,5	2	Nichicon	FG	647-UFG1H101MPM	
D105, D205	14V	1/2W	DO35	2	Fairchild	1N5244B	512-1N5244B	
D101-D104, D201-D204	MUR820		TO220ACS	8	Taiwan Semi	MUR820G	821-MUR820	
IC101, IC201	LM317		TO220ACS	2	OnSemi	LM317TG	863-LM317TG	
R101, R201	50	1/2W 1%	TO126	2	KOA Speer	SPR1	660-SPR1LT52R470J	47R
R104, R204	200	1/2W 1%	B	2	KOA Speer	MF1/2	660-MF1/2CCT52R2000F	
T101	BC639-16	1W	TO-92	1	Fairchild	BD139	512-BD13916S	
T201	BC640-16	1W	TO-92	1	Fairchild	BD140	512-BD14016S	
<b>DC &amp; Speaker Protection</b>								
C14	220uf	50V	E5-10.5	1	Nichicon	FW	647-UFW1V221MPD	
C15	22uf	25V	E2,5-5	1	Nichicon	FW	647-UFW1J220MDD	
C16	100uf	25V	E3.5-8	1	Nichicon	FW	647-UFW1H101MPD	
D4	1N4001		D-7.5	1	Any	1N4001	625-1N4001-E3/54	
DR1, DR2	SBYV27	100V	D-10	2	Vishay	SBYV27-100	625-SBYV27-100-E3/4	
LED	3mm		3mm	1	Any	Any	78-TLDR4400	
R14	470	2W	0309/12	1	Any		MOS1CT52R471J	
R15, R16	75K	1/4W	0207/10	2	Any		660-MF1/4CC7502F	
R19	10K	1/4W	0207/10	1	Any		660-MF1/4CC1002F	
R20	47K	1/4W	0207/10	1	Any		660-MF1/4CC4702F	
R21	220K	1/4W	0207/10	1	Any		660-MF1/4CC2213F	
R22	8K2	1/4W	0207/10	1	Any		660-MF1/4CC8251F	
R23	6K8	1W	0309/12	1	Any		MF1/2DC6811F	
K1	G5LE	DC24V		1	Omron	G5LE-14-DC24	653-G5LE-14-DC24	
Q1	BC639		TO-92	1	Any		863-BC639G	
Q2, Q3	BC546A		TO-92	2	Any		512-BC546CTA	
<b>Connectors &amp; Hardware</b>								
AC1, AC2, NAC1, NAC2.OUT, OUT_GND, PWR_GND			PCB Faston	7	Keystone / Tyco	1287	534-1287	
IN, EXT_LED (Pin steap header)	Tinned			1	Molex	22-23-2021	538-22-23-2021	
Molex crimp pin	Gold plated			6	Molex	08-65-0816	538-08-65-0816	
Molex crimp housing				2	Molex	10-11-2023	538-10-11-2023	
Spacer	M3			4	Harwin	R30-1011002	855-R30-1011002	
Screw	M3			8	Keystone	29311	534-29311	

This BOM is for one (1) PCB.