

3 x DR 8CH A SUMMING V.1 updated 07.04.2015

	VALUE	PCB	Qty	FARNELL	MOUSER	BANZAI	SIZE		NOTES
RESISTORS									
1	0R(JUMPER)	R1-10, R2-10, R3-10, R4-10, R5-10, R6-10, R7-10, R8-10	24						
2	1K5	R1-20, R2-20, R3-20, R4-20, R5-20, R6-20, R7-20, R8-20	24	1771971	271-1.5K-RC		PITCH 10MM	1/4W MF 1%	
3	3K9	R1-12, R2-12, R3-12, R4-12, R5-12, R6-12, R7-12, R8-12	24	1833342	271-3.9K-RC		PITCH 10MM	1/4W MF 1%	
4	6K8	R1-5, R1-6, R2-5, R2-6, R3-5, R3-6, R4-5, R4-6, R5-5, R5-6, R6-5, R6-6, R7-5, R7-6, R8-5, R8-6	48	1099984	660-MF1/4DC6801F		PITCH 10MM	1/4W MF 1%	
5	10K	R-1_9, R2-9, R3-9, R4-9, R5-9, R6-9, R7-9, R8-9, R1-11, R1-19, R1-21, R2-11, R2-19, R2-21, R3-11, R3-19, R3-21, R4-11, R4-19, R4-21, R5-11, R5-19, R5-21, R6-11, R6-19, R6-21, R7-11, R7-19, R7-21, R8-11, R8-19, R8-21	96	1765143	271-10K-RC		PITCH 10MM	1/4W MF 1%	
6	20K	R1-1, R1-2, R1-3, R1-4, R2-1, R2-2, R2-3, R2-4, R3-1, R3-2, R3-3, R3-4, R4-1, R4-2, R4-3, R4-4, R5-1, R5-2, R5-3, R5-4, R6-1, R6-2, R6-3, R6-4, R7-1, R7-2, R7-3, R7-4, R8-1, R8-2, R8-3, R8-4	96	1862228	271-20K-RC		PITCH 10MM	1/4W MF 1%	
7	47K	R1-7, R1-8, R2-7, R2-8, R3-7, R3-8, R4-7, R4-8, R5-7, R5-8, R6-7, R6-8, R7-7, R7-8, R8-7, R8-8	48	9468498	271-47K-RC		PITCH 10MM	1/4W MF 1%	
8	100K	R1-14, R1-15, R1-16, R2-14, R2-15, R2-16, R3-14, R3-15, R3-16, R4-14, R4-15, R4-16, R5-14, R5-15, R5-16, R6-14, R6-15, R6-16, R7-14, R7-15, R7-16, R8-14, R8-15, R8-16	72	1765145	271-100K-RC		PITCH 10MM	1/4W MF 1%	
9	120K	R1-17, R2-17, R3-17, R4-17, R5-17, R6-17, R7-17, R8-17	24	9464220	271-120K-RC		PITCH 10MM	1/4W MF 1%	
10	220K	R1-18, R2-18, R3-18, R4-18, R5-18, R6-18, R7-18, R8-18	24	2330063	271-220K-RC		PITCH 10MM	1/4W MF 1%	
11	1M	R1-13, R2-13, R3-13, R4-13, R5-13, R6-13, R7-13, R8-13	24	1786010	271-1.0M-RC		PITCH 10MM	1/4W MF 1%	
DIODES									
12	1N4148	D1-1, D1-2, D1-3, D1-4, D1-13, D1-14, D1-17, D1-18, D2-1, D2-2, D2-3, D2-4, D3-1, D3-2, D3-3, D3-4, D4-1, D4-2, D4-3, D4-4, D5-1, D5-2, D5-3, D5-4, D6-1, D6-2, D6-3, D6-4, D7-3, D7-4, D8-3, D8-4	96	9843680	512-1N4148				
CERAMIC CAPACITORS									
13	82pF	C1-3, C1-4, C2-3, C2-4, C3-3, C3-4, C4-3, C4-4, C5-3, C5-4, C6-3, C6-4, C7-3, C7-4, C8-3, C8-4	48	6577878	81-RPE5C1H820J2P1Z03		PITCH 2.5MM	50V	
14	0.1uF	C1-6, C1-7, C1-10, C1-11, C2-6, C2-7, C2-10, C2-11, C3-6, C3-7, C3-10, C3-11, C4-6, C4-7, C4-10, C4-11, C5-6, C5-7, C5-10, C5-11, C6-6, C6-7, C6-10, C6-11, C7-6, C7-7, C7-10, C7-11, C8-6, C8-7, C8-10, C8-11	96	2112909	594-K104M15X7RF53L2		PITCH 2.5MM	50V	
ELECTROLYTIC CAPACITORS									
15	1uF	C1-12, C2-12, C3-12, C4-12, C5-12, C6-12, C7-12, C8-12	24	1973505			DIAM 5MM PITCH 2.5MM	35V	LOW ESSR
16	47uF	C1-8, C1-9, C2-8, C2-9, C3-8, C3-9, C4-8, C4-9, C5-8, C5-9, C6-8, C6-9, C7-8, C7-9, C8-8, C8-9	48	1823815	647-UFG1V470MPM		DIAM 8MM PITCH 3.5MM	35V	AUDIO
17	470uF	C1-5, C2-5, C3-5, C4-5, C5-5, C6-5, C7-5, C8-5	48	5405944			AXIAL 22MM OR RADIAL 5MM	35V	AUDIO
18	1000uF	C-1, C-2, C-3, C-4	12	1800671			DIAM 13MM PITCH 5MM	35V	LOW ESSR
BI POLAR ELECTROLYTIC CAPACITORS									
19	22uF	C1-1, C1-2, C2-1, C2-2, C3-1, C3-2, C4-1, C4-2, C5-1, C5-2, C6-1, C6-2, C7-1, C7-2, C8-1, C8-2	48				DIAM 6MM PITCH MM2.5		AUDIO
IC									
20	THAT 1646	IC1-1, IC2-1, IC3-1, IC4-1, IC5-1, IC6-1, IC7-1, IC8-1	24	1354158	887-1646P08-U		DIP8		
21	TL074	IC1-2, IC1-7, IC1-8, IC2-2, IC3-2, IC4-2, IC5-2, IC6-2	24	1256325			DIP14		
22	DIP8 SOCKETS	IC_1, IC_2, IC_3, IC_4, IC_5, IC_6, IC_7, IC_8, IC_9, IC_LA, IC_LB, IC_LC, IC_LD, IC_LE, IC_RA, IC_RB, IC_RC, IC_RD, IC_RE	24	1351428	575-144308		DIP8		
23	DIP14 SOCKETS	IC_5, IC_LA, IC_LB, IC_LC, IC_LD, IC_LE, IC_RA, IC_RB, IC_RC, IC_RD, IC_RE	24	1224723			DIP14		
DOA									
24	2520	DOA-1, DOA-2, DOA-3, DOA-4, DOA-5, DOA-6, DOA-7, DOA-8	24				2520	+/-16V	GAR2520
25	DOA SOCKETS		144	149318	855-H3161-01				
MOLEX HEADER									
26	2 PIN 2.54	LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	24	1462926	538-22-23-2021		PITCH 2.54MM		
27	3 PIN 2.54	IN_1, IN_2, IN_3, IN_4, IN_5, IN_6, IN_7, IN_8, FADER 1, FADER 2, FADER 3, FADER 4, FADER 5, FADER 6, FADER 7, FADER 8, PAN 1, PAN 2, PAN 3, PAN 4, PAN 5, PAN 6, PAN 7, PAN 8, DIR_OUT1, DIR_OUT2, DIR_OUT3, DIR_OUT4, DIR_OUT5, DIR_OUT6, DIR_OUT7, DIR_OUT8	96	1462950	538-22-23-2031		PITCH 2.54MM		
28	2 PIN 3.96	+/-16V	3	2313555			PITCH 3.96MM		
29	3 PIN 3.96	BUS	3	1821320			PITCH 3.96MM		
MOLEX CRIMP HOUSING									
30	2 PIN 2.54	LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	24	1462825	538-22-01-2027		PITCH 2.54MM		
31	3 PIN 2.54	IN_1, IN_2, IN_3, IN_4, IN_5, IN_6, IN_7, IN_8, FADER 1, FADER 2, FADER 3, FADER 4, FADER 5, FADER 6, FADER 7, FADER 8, PAN 1, PAN 2, PAN 3, PAN 4, PAN 5, PAN 6, PAN 7, PAN 8, DIR_OUT1, DIR_OUT2, DIR_OUT3, DIR_OUT4, DIR_OUT5, DIR_OUT6, DIR_OUT7, DIR_OUT8	96	1462838	538-22-01-2037		PITCH 2.54MM		
32	2 PIN 3.96	+/-16V	3	1686329			PITCH 3.96MM		
33	3 PIN 3.96	BUS	3	1462852			PITCH 3.96MM		
34	Solder Terminals 2.54		336	1462641	538-08-50-0114				
35	Solder Terminals 3.96		15	2295972					

FRONT PANEL

	VALUE	PCB	Qty	FARNELL	MOUSER	BANZAI	SIZE		NOTES
POTENTIOMETERS									
1	1K LOG	1-16 CHANNEL VOLUME	16			SKU19399			16mm diameter
2	DUAL 1K LOG	17-24 CHANNEL VOLUME	4			SKU24471			
3	10K LIN	CHANNEL PAN	16		send message	to →	info@alphastat.de	ask this →	63250-01610-2205/B10K
4	DUAL 10K LOG	MASTER VOLUME	1			SKU20409			Could be used 2 pole 21 step switch
LEDS									
5	2 COLOUR LED	SIGNAL/PEAK CHANNEL INDICATOR	24		696-SSL-LX3044IGW		DIAM 3MM	2 PINS	RED/GREEN
TOGGLE SWITCHES									
6	SPDT TOGGLE	1-16 CHANNEL MUTE, MASTER MUTE, INSERT, POWER	19		108-1MS1T1B1M2QE-EVX	SKU16264			
7	DPDT	17-24 CHANNEL VOLUME	4						
VU METERS									
8	VU METER	MASTER OUT METERS	2				PANEL CUTOUT 47 x 24		hairballaudio.com
9	VU BUFFER	STEREO VU BUFFER	1				JLM		jlmaudio.com
KNOBS									
10		CHANNEL VOLUME, CHANNEL PAN, MASTER VOLUME	25						

INSERT BOARD

	VALUE		Qty	FARNELL	MOUSER	BANZAI		
RESISTORS								
1	320OHM 1WATT	R1	1					320ohm with OMRON G5V-2-H1-12VDC
2	0 OHM	R2	1					JUMPER
DIODES								
3	1N4004	D1	1	1651084				
RELAYS								
4	DPDT 12VDC 1A	K1, K2, K3, K4	4	9949860	653-G5V-2-H1-DC12	SKU24239		
XLRs								
5	3 PIN XLR MALE PCB	OUT_1, OUT_2	2	308857			NC3MD-H	
6	3 PIN XLR MALE	OUT 3, OUT 4, SND1, SND2	2	1390131			NC3MD-LX	
7	3 PIN FEMALE	RTN1, RTN2	2	1390116			NC3FD-LX	
MOLEX HEADER								
8	2 PIN 2.54	INS_SW, REL_PSU	2	1462926	538-22-23-2021		PITCH 2.54MM	
9	3 PIN 2.54	SND_1, SND_2, RTN_1, RTN_2, IN_1, IN_2	6	1462950	538-22-23-2031		PITCH 2.54MM	
MOLEX CRIMP HOUSING								
10	2 PIN 2.54	INS_SW, REL_PSU	2	1462825	538-22-01-2027		PITCH 2.54MM	
11	3 PIN 2.54	SND_1, SND_2, RTN_1, RTN_2, IN_1, IN_2	6	1462838	538-22-01-2037		PITCH 2.54MM	
12	Solder Terminals 2.54		22	1462641	538-08-50-0114			

PSU

	VALUE	Qty		FARNELL	MOUSER	BANZAI			
RESISTORS									
1	200R	2	R1, R2				PITCH 10MM	1/4W MF 1%	
TRIMPOTS									
2	5K	2	+V_TRIM, -V_TRIM						
CERAMIC CAPS									
3	0.1uF	4	C3, C4, C7, C8	2112909	594-K104M15X7RF53L2		PITCH 2.5MM	50V	
ELECTROLYTIC CAPACITORS									
4	100uF	4	C5, C6, C9, C10				DIAM 5MM PITCH 2.5MM	50V	LOW ESR
5	4700uF	2	C1, C2				DIAM 25MM PITCH 10MM	50V	LOW ESR
VOLTAGE REGULATORS									
6	LM317	1	317				TO 220		
7	LM337	1	337				TO 220		
DIODES									
8	1N4004	4	D1, D2, D3, D4	1651084					
DIODE BRIDGE									
9	GBU 200V 8A		B2	9549536			GBU		
CONNECTORS									
10	4 PIN HEADER	1		1767970					
	4 PIN CRIMP	1		4234200					
	Solder Terminals 3.96	4							
TERMINAL BLOCKS									
11	4 PIN	1	XFRM	1624302			PITCH 5.08MM		
IEC									
	IEC	1				24514			
	FUSE	1							
HEATSINKS									
	TO 220	2	317, 337				USE BIG SIZE		

BOM UPDATE HISTORY

[illegible]