

VALUE		PCB		MOUSER	ALT	NOTES	SIZE	
RESISTORS								
	0R	R84, R124	4		0 OHM	JUMPER	PITCH 10MM	1/4W MF 1%
	10R	R43, R44, R66, R71, R86, R123	12	271-10-RC			PITCH 10MM	1/4W MF 1%
	33R	R67, R73, R120	6	271-36-RC			PITCH 10MM	1/4W MF 1%
	47R	R26, R27	4	271-47-RC			PITCH 10MM	1/4W MF 1%
	51R	R122	2	271-51-RC			PITCH 10MM	1/4W MF 1%
	100R	R9	2	271-100-RC			PITCH 10MM	1/4W MF 1%
	150R	R22	2	271-150-RC			PITCH 10MM	1/4W MF 1%
	220R	R45	2	271-220-RC			PITCH 10MM	1/4W MF 1%
	240R	R10, R61, R110	6	271-240-RC			PITCH 10MM	1/4W MF 1%
	300R	R23	2	271-300-RC			PITCH 10MM	1/4W MF 1%
	330R	R83	2	271-330-RC			PITCH 10MM	1/4W MF 1%
	390R	R32	2	271-390-RC			PITCH 10MM	1/4W MF 1%
	430R	R59	2	271-430-RC			PITCH 10MM	1/4W MF 1%
	560R	R31	2	271-560-RC			PITCH 10MM	1/4W MF 1%
	680R	R58	2	271-680-RC			PITCH 10MM	1/4W MF 1%
	820R	R42	2	271-820-RC			PITCH 10MM	1/4W MF 1%
	1K	R36	2	271-1K-RC			PITCH 10MM	1/4W MF 1%
	1K1	R37, R38, R39	6	271-1.1K-RC			PITCH 10MM	1/4W MF 1%
	1K2	R41	2	271-1.2K-RC			PITCH 10MM	1/4W MF 1%
	1K3	R40	2	271-1.3K-RC			PITCH 10MM	1/4W MF 1%
	1K6	R28, R30	4	271-1.6K-RC			PITCH 10MM	1/4W MF 1%
	2K2	R47	2	271-2.2K-RC			PITCH 10MM	1/4W MF 1%
	2K7	R125, R126	4	271-2.7K-RC		LED BRIGHTNESS	PITCH 10MM	1/4W MF 1%
	3K3	R29	2	271-3.3K-RC			PITCH 10MM	1/4W MF 1%
	4K3	R53	8	271-4.3K-RC			PITCH 10MM	1/4W MF 1%
	4K7	R14, R15, R16, R17	8	271-4.7K-RC			PITCH 10MM	1/4W MF 1%
	5K6	R11, R12	4	271-5.6K-RC			PITCH 10MM	1/4W MF 1%
	7K5	R33, R34	4	271-7.5K-RC			PITCH 10MM	1/4W MF 1%
	10K	R1, R2, R3, R4, R5, R35, R82, R133	16	271-10K-RC			PITCH 10MM	1/4W MF 1%
	11K	R54, R55, R56	6	271-11K-RC			PITCH 10MM	1/4W MF 1%
	12K	R25	2	271-12K-RC			PITCH 10MM	1/4W MF 1%
	16K	R24	2	271-16K-RC			PITCH 10MM	1/4W MF 1%
	20k	R78, R79, R80, R81	8	271-20K-RC			PITCH 10MM	1/4W MF 1%
	24K	R6, R7, R8	6	271-24K-RC			PITCH 10MM	1/4W MF 1%
	25k	R121	2	271-24.9K-RC			PITCH 10MM	1/4W MF 1%

VALUE		PCB		MOUSER	ALT	NOTES	SIZE	
	27K	R75, R76	4	271-27K-RC			PITCH 10MM	1/4W MF 1%
	33K	R13	2	271-33K-RC			PITCH 10MM	1/4W MF 1%
	47K	R48, R49, R50, R51, R52, R69, R70, R74, R77	18	271-47K-RC			PITCH 10MM	1/4W MF 1%
	62K	R60	2	271-62K-RC			PITCH 10MM	1/4W MF 1%
	100K	R21	2	271-100K-RC			PITCH 10MM	1/4W MF 1%
	120K	R18, R19, R20	6	271-120K-RC			PITCH 10MM	1/4W MF 1%
	220K	R46	2	271-220K-RC			PITCH 10MM	1/4W MF 1%
	1M	R57, R68, R72, R85, R132	10	271-1.0M-RC			PITCH 10MM	1/4W MF 1%
	OMMIT	RZ				NOT INSTALL	PITCH 10MM	1/4W MF 1%
DIODES								
	1N4148	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D23, D24, D25, D26, D27, D28	34	512-1N4148			DO 35	
	1N4153	D14, D15, D16, D17	8	494-1N4153-1	EBAY	MATCHED	DO 35	
	ZENER 2.7V	D12, D13	4	78-BZX55C2V7-TAP			DO 35	
	BAT42	D18	2	625-BAT42			DO 35	
CERAMIC CAPACITORS X7R(POWER)								
	0.1uF	C31, C35, C36, C38, C41	10	594-K104K15X7RF53L2			PITCH 2.5MM	
FILM CAPACITORS								
	22pF	C34, C39	4	810-FA18C0G1H22000			PITCH 2.5MM	
	100pF	C19, C20, C21, C22	8	505-FKP2C001001D00KI			PITCH 5MM	
	330pF	C24	2	505-FKP2C003301D00KI			PITCH 5MM	
	1500pF	C23	2	505-FKP2J011501D00JO				
	47nF	C26, C27	4	80-MMK5473J50J01TA18			PITCH 5MM	
	OMMIT	CZ				NOT INSTALL		
ELECTROLYTIC CAPACITORS								
	10uF	C25, C28, C32	6	647-UFG1K100MEM		AUDIO		35 VOLT
	33uF	C7, C8, C9, C10, C11, C12	12	647-UPM1V330MED		LOW ESSR		35 VOLT
	47uF	C29, C30, C42	6	647-UPW1V470MED		LOW ESSR		35 VOLT
	100uF	C3, C4, C5, C6	8	647-UPW1V101MPD1TD		LOW ESSR		35 VOLT
	470uF	C1, C2, C16, C18	8	647-UPW1V471MPD		LOW ESSR		35 VOLT
	470uF	C15, C17	4	647-UFG1V471MHM		AUDIO		35 VOLT
TANTALUM CAPACITORS								
	10uF	C13, C14	4	581-TAP106M025SCS				
TRANSISTORS								
	BC184C	Q8, Q9, Q10, Q11, Q12, Q13, Q14	14	512-BC550CTA	BC550C, BC107C	NPN	TO-92	
	BC214C	Q2, Q3, Q4, Q5, Q6, Q7	12	512-BC560CTA	BC560C	PNP	TO-92	

DR 609 V1.1 MAIN BOARD BOM (2 CHANNELS)

DIY RACKED SUPPORT diy.racked.sos@gmail.com

VALUE	PCB	MOUSER	ALT	NOTES	SIZE
J109	Q16, Q17	4	512-J109	PNP	TO-92
MJE371	Q1	2	512-BD14016S	BD140	
BC441	Q15	2	610-2N3053	2N3053	TO-39
ICS					
TL072 or OPA2134	IC1, IC2	4	595-TL072CP	JFET INPUT OPAMP	18VOLT
TL071	IC3	2	595-TL071CP	JFET INPUT OPAMP	
RELAYS					
DPDT 24VDC	K1, K2, K3, K4, K5, K6	12	653-G5V-2-H-DC24		
TRIM POTS					
5K	RV1, RV2	4	652-3296W-1-502LF		
10K	RV3, RV4, RV6	6	652-3296W-1-103LF		
50K	RV5	2	652-3296W-1-503LF		
JUMPERS					
2 pin Header	JP1, JP2,	4	538-22-28-4160		PITCH 2.54MM
Jumpers	JP1, JP2,	4	571-881545-5	CUT	PITCH 2.54MM
AMP SOCKETS					
AMP SKT	BA340	10	855-H3161-01		
MOLEX HEADER					
2 PIN	METER, MTR_LED, PWR/LINK_LED	6	538-22-23-2021		PITCH 2.54MM
3 PIN	CMP_THD, CTRL_C, CTRL_D, EXT_SC, IN_XLR, OUT_XLR	12	538-22-23-2031		PITCH 2.54MM
4 PIN	INPUT_XFRM, INTERSTAGE_XFRM	4	538-22-23-2041		PITCH 2.54MM
5 PIN	OUT_XFRM	2	538-22-23-2051		PITCH 2.54MM
8 PIN	CTRL_A, CTRL_B	4	538-22-23-2081		PITCH 2.54MM
MOLEX CRIMP HOUSING					
2 PIN	METER, MTR_LED, PWR/LINK_LED	6	538-22-01-2027		PITCH 2.54MM
3 PIN	CMP_THD, CTRL_C, CTRL_D, EXT_SC, IN_XLR, OUT_XLR	12	538-22-01-2037		PITCH 2.54MM
4 PIN	INPUT_XFRM, INTERSTAGE_XFRM	4	538-10-11-2043		PITCH 2.54MM
5 PIN	OUT_XFRM	2	538-10-11-2053		PITCH 2.54MM
8 PIN	CTRL_A, CTRL_B	4	538-22-01-2087		PITCH 2.54MM
Solder Terminals		106	538-08-52-0123		
VOLTAGE REGULATORS					
78L15	IC4	2			
79L15	IC5	2			
POWER					
3 PIN TERMINAL	X1	2			PITCH 5MM

VALUE		PCB		MOUSER	ALT	NOTES	SIZE	
XLRs								
	XLR MALE		2	568-NC3MD-H			D series	
	XLR FEMALE		4	568-NC3FD-H			D series	
PCB STANDOFF								
			4					

DR 609 V1.1 FRONT PANEL (2 CHANNELS)

VALUE		PCB	QTY	MOUSER	ALTERNATIVE			
LIMIT THRESHOLD RESISTORS								
	110R	R111	2	271-110-RC			PITCH 10MM	1/4W MF 1%
	120R	R112	2	271-120-RC			PITCH 10MM	1/4W MF 1%
	135R	R113	2	271-137-RC	130-140 OHM		PITCH 10MM	1/4W MF 1%
	160R	R114	2	271-160-RC			PITCH 10MM	1/4W MF 1%
	180R	R115	2	271-180-RC			PITCH 10MM	1/4W MF 1%
	190R	R116	2	271-191-RC			PITCH 10MM	1/4W MF 1%
	220R	R117	2	271-220-RC			PITCH 10MM	1/4W MF 1%
	250R	R118	2	271-249-RC			PITCH 10MM	1/4W MF 1%
	280R	R119	2	271-280-RC			PITCH 10MM	1/4W MF 1%
	310R	R130	2	660-MFS1/4DCT52R3090			PITCH 10MM	1/4W MF 1%
	340R	R134	2	603-MFR-25FBF52-340R			PITCH 10MM	1/4W MF 1%
LIMIT RELEASE RESISTORS								
	6K8	R65	2	271-6.8K-RC			PITCH 10MM	1/4W MF 1%
	7K5	R62	2	271-7.5K-RC			PITCH 10MM	1/4W MF 1%
	8K2	R129	2	271-8.2K-RC			PITCH 10MM	1/4W MF 1%
	15K	R128	2	271-15K-RC			PITCH 10MM	1/4W MF 1%
	18K	R131	2	271-18K-RC			PITCH 10MM	1/4W MF 1%
	100K	R127	2	271-100K-RC			PITCH 10MM	1/4W MF 1%
	120K	R63, R64	4	271-120K-RC			PITCH 10MM	1/4W MF 1%
COMPRESSOR THRESHOLD								
	STEP 1-2	68R	2	271-68-RC			PITCH 10MM	1/4W MF 1%
	STEP 2-3	75R	2	271-75-RC			PITCH 10MM	1/4W MF 1%
	STEP 3-4	110R	2	271-110-RC			PITCH 10MM	1/4W MF 1%
	STEP 4-5	130R	2	271-130-RC			PITCH 10MM	1/4W MF 1%

DR 609 V1.1 FRONT PANEL (2 CHANNELS)

VALUE		PCB	QTY	MOUSER	ALTERNATIVE			
	STEP 5-6	160R	2	271-160-RC			PITCH 10MM	1/4W MF 1%
	STEP 6-7	200R	2	271-200-RC			PITCH 10MM	1/4W MF 1%
	STEP 7-8	300R	2	271-300-RC			PITCH 10MM	1/4W MF 1%
	STEP 8-9	360R	2	271-360-RC			PITCH 10MM	1/4W MF 1%
	STEP 9-10	510R	2	271-510-RC			PITCH 10MM	1/4W MF 1%
	STEP 10-11	680R	2	271-680-RC			PITCH 10MM	1/4W MF 1%
	STEP 11-12	910R	2	271-910-RC			PITCH 10MM	1/4W MF 1%
	STEP 12-13	1K2	2	271-1.2K-RC			PITCH 10MM	1/4W MF 1%
	STEP 13-14	2K	2	271-2K-RC			PITCH 10MM	1/4W MF 1%
	STEP 14-15	3K	2	271-3.0K-RC			PITCH 10MM	1/4W MF 1%
	STEP 15-16	5K1	2	271-5.1K-RC			PITCH 10MM	1/4W MF 1%
COMPRESSOR RELEASE RESISTORS								
	6K8	R94	2	271-6.8K-RC			PITCH 10MM	1/4W MF 1%
	7K5	R91	2	271-7.5K-RC			PITCH 10MM	1/4W MF 1%
	18K	R90	2	271-18K-RC			PITCH 10MM	1/4W MF 1%
	75K	R87	2	271-75K-RC			PITCH 10MM	1/4W MF 1%
	120K	R92, R93	4	271-120K-RC			PITCH 10MM	1/4W MF 1%
	150K	R88	2	271-150K-RC			PITCH 10MM	1/4W MF 1%
	330K	R89	2	271-330K-RC			PITCH 10MM	1/4W MF 1%
COMPRESSOR GAIN								
	43R	R108	2	271-43-RC			PITCH 10MM	1/4W MF 1%
	51R	R107	2	271-51-RC			PITCH 10MM	1/4W MF 1%
	75R	R106	2	271-75-RC			PITCH 10MM	1/4W MF 1%
	91R	R105	2	271-91-RC			PITCH 10MM	1/4W MF 1%
	130R	R109	2	271-130-RC			PITCH 10MM	1/4W MF 1%
	160R	R104	2	271-160-RC			PITCH 10MM	1/4W MF 1%

DR 609 V1.1 FRONT PANEL (2 CHANNELS)

VALUE		PCB	QTY	MOUSER	ALTERNATIVE			
	240R	R103	2	271-240-RC			PITCH 10MM	1/4W MF 1%
	390R	R102	2	271-390-RC			PITCH 10MM	1/4W MF 1%
	820R	R101	2	271-820-RC			PITCH 10MM	1/4W MF 1%
	2K4	R100	2	271-2.4K-RC			PITCH 10MM	1/4W MF 1%
	1M	R99	2	271-1.0M-RC			PITCH 10MM	1/4W MF 1%
COMPRESSOR RATIO								
	820R	R95	2	271-820-RC			PITCH 10MM	1/4W MF 1%
	2K7	R96	2	271-2.7K-RC			PITCH 10MM	1/4W MF 1%
	3K3	R97	2	271-3.3K-RC			PITCH 10MM	1/4W MF 1%
	15K	R98	2	271-15K-RC			PITCH 10MM	1/4W MF 1%
COMPRESSOR ATTACK								
	130R	R137	2	271-130-RC			PITCH 10MM	1/4W MF 1%
	8K2	R135	2	271-8.2K-RC			PITCH 10MM	1/4W MF 1%
	16K	R136	2	271-16K-RC			PITCH 10MM	1/4W MF 1%
TANTALUM OR ELECTROLITIC CAPACITORS								
	47uF	C33, C37	4	647-UPW1V470MED			PITCH 3.5MM	25V-35V
DIODES								
	1N4148	D19, D20, D21, D22	8	512-1N4148			DO 35	
ROTARY SWITCHES								
	1 POLE 12 STEP	THD_LIM, GAIN, RATIO	6	10SM159				
	2 POLE 6 STEP	RELEASE_LIM, RELEASE_CMP	4	10SM160				
	24 STEP	THD	2		COMPRESSOR THRESHOLD	ELMA OR URALTONE		
TOGGLE SWITCHES								
	SPDT ON ON	ATTACK_LIM, BYPASS, LIMIT, POWER	7	506-A101SYCQ04				

DR 609 V1.1 FRONT PANEL (2 CHANNELS)

VALUE		PCB	QTY	MOUSER	ALTERNATIVE			
	SPDT ON OFF ON	ATTACK_CMP	2	612-100-C1121				
	DPDT ON OFF ON	SIDECHAIN, HPF	4	506-A203SYCQ04				
	DPDT ON ON	LINK	1					
LEDS								
	3MM LED	PWR, LINK	2				DIAMETER 3MM	
KNOBS								
	KNOBSs		12					
VU METER								
	1mA meter	GR METER	2		USA STORE	EU STORE		

AMP340 (2 CHANNELS)

VALUE		PCB	QTY	MOUSER	ALTERNATIVE			
LIMIT THRESHOLD RESISTORS								
	1R5	R13, R14	4	660-MF1/4DCT52R1R50F			PITCH 10MM	1/4W MF 1%
	150R	R10	2	271-150-RC			PITCH 10MM	1/4W MF 1%
	560R	R8, R9, R12	6	271-560-RC			PITCH 10MM	1/4W MF 1%
	2K2	R7	2	271-2.2K-RC			PITCH 10MM	1/4W MF 1%
	2K7	R5	2	271-2.7K-RC			PITCH 10MM	1/4W MF 1%
	10K	R11	2	271-10K-RC			PITCH 10MM	1/4W MF 1%
	15K	R4	2	271-15K-RC			PITCH 10MM	1/4W MF 1%
	18K	R2	2	271-18K-RC			PITCH 10MM	1/4W MF 1%
	36K	R1	2	271-36K-RC			PITCH 10MM	1/4W MF 1%
	47K	R3, R6	4	271-47K-RC			PITCH 10MM	1/4W MF 1%
TRIMPOT								
	5K	RV1	2	652-3296W-1-502LF		BOURNS 3296W TYPE		
TANTALUM OR ELECTROLITIC CAPACITORS								
	22uF	C1	2	581-TAP226K025SCS				25-35V
	10uF	C2	2	581-TAP106M025SCS				25-35V
DIODES								
	AA144	D3	2		EBAY	GERMANIUM DIODE		
	BAX13	D1, D2	4	512-1N4148	1N4148			
TRANSISTORS								
	BC184C	Q2, Q3	4	512-BC550CTA	BC550C, BC107C		TO-92	
	BC214C	Q1	2	512-BC560CTA	BC560		TO-92	
	BC441	Q5, Q6, Q7	6	610-BC441	2N3053		TO-39	
	BC461	Q4, Q8	4	610-BC461	2N5322, 2N4037		TO-39	
FILM or CERAMIC CAPACITORS								
	220pF	C3	2	810-FG18C0G2A221JNT0	FILM or C0G		PITCH 2.5MM	
	10nF	C5	2	594-K103K15X7RH5TH5	FILM or X7R		PITCH 7.5MM	
		C6	2		NOT INSTALL	OPTIONAL	PITCH 2.5MM	
AMP PINS								
	1MM		10	575-310320				

PSU

	VALUE	Qty		MOUSER	ALT			
RESISTORS								
1	200R	2	R1, R2	271-200-RC		PITCH 10MM	1/4W MF 1%	
TRIMPOTS								
2	5K	2	+V_TRIM, -V_TRIM	652-3296W-1-502LF		MULTI TURN		
CERAMIC CAPS								
3	0.1uF	4	C3, C4, C7, C8	594-K104K15X7RF53L2		PITCH 2.5MM	50V	
ELECTROLYTIC CAPACITORS								
4	100uF	4	C5, C6, C9, C10	647-UPW1H101MPD		DIAM 5MM PITCH 2.5MM	50V	LOW ESSR
5	2200-4700uF	2	C1, C2	647-UPW1H222MHD		DIAM 25MM PITCH 10MM	50V	LOW ESSR
VOLTAGE REGULATORS								
6	LM317	1	317	863-LM317TG		TO 220		
7	LM337	1	337	863-LM337TG		TO 220		
DIODES								
8	1N4004	4	D1, D2, D3, D4	863-1N4004RLG				
DIODE BRIDGE								
9	GBU 200V 8A	1		512-GBU8D		GBU		
TERMINAL BLOCKS								
11		1				PITCH 5.08MM		
IEC								
	IEC	1			24514			
	FUSE	1						
HEATSINKS								
	TO 220	2	317, 337	567-637-20ABPE		USE BIG SIZE		

DR 609 TRANSFORMERS (2 CHANNELS)

VALUE		PCB	QTY			
TRANSFORMERs						
	INPUT XFMR		2	CARNHILL, MARINAIR, SOWTER		
	INTARSTAGE XFRM		2	CARNHILL, MARINAIR, SOWTER		
	OUTPUT XFMR		2	CARNHILL, MARINAIR, SOWTER		
		CARNHILL OPTION				
	INPUT XFMR	VTB9046	2	LINE IN		
	INTARSTAGE XFRM	VTB9045	2	MIC XFRM		
	OUTPUT XFMR	VTB9056	2	OUTPUT NOT GAPPED, 70:600		
		MARINAIR OPTION				
	INPUT XFMR	31267	2	LINE IN		
	INTARSTAGE XFRM	10468	2	MIC XFRM		
	OUTPUT XFMR	LO1173	2	OUTPUT NOT GAPPED, 70:600		
		SOWTER OPTION				
	INPUT XFMR		2	LINE IN		
	INTARSTAGE XFRM		2	MIC XFRM		
	OUTPUT XFMR		2	OUTPUT NOT GAPPED, 70:600		

BOM UPDATE HISTORY

DATE	DESCRIPTION