

VALUE	PCB		MOUSER	ALT	NOTES		SIZE	
RESISTORS								
	0R	R119	2		JUMPER			
	10R	R84	2	271-10-RC			PITCH 10MM	1/4W MF 1%
	24R	R16	2	271-24-RC			PITCH 10MM	1/4W MF 1%
	36R	R74	2	271-36-RC			PITCH 10MM	1/4W MF 1%
	56R(1W)	R77	2		1WATT		PITCH 10MM	1W MF 1%
	270R	R113	2	271-270-RC	RELAY CURRENT		PITCH 10MM	1/4W MF 1%
	390R	R46	2	271-390-RC			PITCH 10MM	1/4W MF 1%
	430R	R43	2	271-430-RC			PITCH 10MM	1/4W MF 1%
	510R	R75	2	271-510-RC			PITCH 10MM	1/4W MF 1%
	820R	R32	2	271-820-RC			PITCH 10MM	1/4W MF 1%
	1K	R9, R30, R37, R42, R44, R69	12	271-1K-RC			PITCH 10MM	1/4W MF 1%
	2K	R31, R45	4	271-2K-RC			PITCH 10MM	1/4W MF 1%
	1K5	R8	2	271-1.5K-RC			PITCH 10MM	1/4W MF 1%
	2K2	R73	2	271-2.2K-RC			PITCH 10MM	1/4W MF 1%
	2K7	R114, R116	4	271-2.7K-RC	LEDs BRIGHTNES		PITCH 10MM	1/4W MF 1%
	3K3	R23, R26, R70, R76, R100	10	271-3.3K-RC			PITCH 10MM	1/4W MF 1%
	3K9	R19, R21, R39, R79	8	271-3.9K-RC			PITCH 10MM	1/4W MF 1%
	4K3	R59, R62	4	271-4.3K-RC			PITCH 10MM	1/4W MF 1%
	4K7	R81	2	271-4.7K-RC			PITCH 10MM	1/4W MF 1%
	6K2	R63, R64	4	271-6.2K-RC			PITCH 10MM	1/4W MF 1%
	7K5	R22, R25, R78	6	271-7.5K-RC			PITCH 10MM	1/4W MF 1%
	6K8	R18	2	271-6.8K-RC			PITCH 10MM	1/4W MF 1%
	9K1	R7	2	271-9.1K-RC			PITCH 10MM	1/4W MF 1%
	10K	R2, R10, R33, R34, R54, R57	12	271-10K-RC			PITCH 10MM	1/4W MF 1%
	12K	R27, R71	4	271-12K-RC			PITCH 10MM	1/4W MF 1%
	13K	R61	2	271-13K-RC			PITCH 10MM	1/4W MF 1%
	15K	R17, R20, R29, R36, R58, R60	12	271-15K-RC			PITCH 10MM	1/4W MF 1%
	20K	R1, R3, R11, R14, R55, R56, R68, R80	16	271-20K-RC			PITCH 10MM	1/4W MF 1%
	22K	R6, R15	4	271-22K-RC			PITCH 10MM	1/4W MF 1%
	24K	R72	2	271-24K-RC			PITCH 10MM	1/4W MF 1%
	27K	R12, R38, R66	6	660-MFS1/4DCT52R2702			PITCH 10MM	1/4W MF 1%
	39K	R41	2				PITCH 10MM	1/4W MF 1%
	51K	R24, R28, R65	6	271-51K-RC			PITCH 10MM	1/4W MF 1%
	56K	R4, R5	4				PITCH 10MM	1/4W MF 1%
	62K	R48, R51	4				PITCH 10MM	1/4W MF 1%
	82K	R47, R49, R52	6				PITCH 10MM	1/4W MF 1%
	100K	R67	2	271-100K-RC			PITCH 10MM	1/4W MF 1%
	120K	R50, R53	4				PITCH 10MM	1/4W MF 1%
	150K	R35, R40	4	271-150K-RC			PITCH 10MM	1/4W MF 1%
	1M	R151, R152	4	660-MFS1/4DCT52R1004			PITCH 10MM	1/4W MF 1%
	100R 2W	R127 (GR METER LAMP)	2		100R 2W with 24V LAMP	or 2K7 1/4W with LED	PITCH 10MM	2W
	OMMIT	R123, R125					PITCH 10MM	
DIODES								
	1N4148	D16, D17	4	512-1N4148			DO 35	
	OA202	D5, D6, D7, D8, D9, D10, D11	14		1N4153		DO 35	
	1N751A	D1, D2, D3, D4	8		1N5231B	MATCHED	Buy 50 or100 to much 8 1N751A	DO 35
	1N4733A	D13	2			5.1V 1W		
	1N4741A	D14	2			11V 1W		
	1N4742A	D15	2			12V 1W		
CERAMIC CAPACITORS X7R(POWER)								
	0.1uF	CP1, CP2, CP3, CP4, CP5, CP6, CP11	14				PITCH 5MM	
FILM CAPACITORS								
	33pF	C21	2		MICA or C0G		PITCH 5MM	
	100pF	C8, C26	4		MICA or C0G		PITCH 5MM	
	150pF	C24	2		MICA or C0G		PITCH 5MM	
	220pF	C25	2		MICA or C0G		PITCH 5MM	
	2n7F	C22	2				PITCH 5MM	
	1uF	C2, C6, C18	6					
	4u7F	C1, C3, C105	6					
ELECTROLYTIC CAPACITORS								
	10uF	C9, C20	4			AUDIO		35 VOLT
	22uF	C15, C16, C17, CP7, CP8	10			LOW ESSR		35 VOLT
	220uF	C19, CP9, CP10, CP12	8			LOW ESSR		35 VOLT
	330uF	C7	2			LOW ESSR		35 VOLT
	470uF	C23	2			AUDIO		35 VOLT
TRANSISTORS								
	BC184C	Q5, Q6, Q8, Q9, Q10, Q11, Q13, Q14, Q16, Q17, Q19, Q20, Q23, Q24	28		BC550, BC107C	NPN	TO-92	
	BC214C	Q1, Q2, Q3, Q4, Q7, Q12, Q15, Q18, Q21, Q22, Q27	22		BC560	PNP	TO-92	
	BC177A	Q25	2		BC560	PNP	TO-92	
	BC107A	Q26	2		BC550	NPN	TO-92	
	2N4898	Q29	2		MJE2955T	PNP	TO-66 or TO-220	
	2N4910	Q28	2		MJE3055T	NPN	TO-66 or TO-220	
RELAYS								
	DPDT 24VDC	K1, K2	4	653-G5V-2-H-DC24				
JUMPERS								
	2 pin Header	JP1, JP2, JP3, JP4, JP5, JP6	12	538-22-28-4160			PITCH 2.54MM	
	Jumpers	JP1, JP2, JP3, JP4, JP5, JP6	12	571-881545-5		CUT	PITCH 2.54MM	
MOLEX HEADER								
	2 PIN	METER, MTR_LED, PWR/LNK_LED	6	538-22-23-2021			PITCH 2.54MM	
	3 PIN	IN_XLR, OUT_XLR, INPUT, OUTPUT, BYP	10	538-22-23-2031			PITCH 2.54MM	
	4 PIN	IN_XFRM, OUT_XFRM, CTRL_A, CTRL_B	8				PITCH 2.54MM	
	5 PIN	CTRL_C	2	538-22-23-2061			PITCH 2.54MM	
MOLEX CRIMP HOUSING								
	2 PIN	VU, PWR/LINK, MTR_LED	6	538-22-01-2027			PITCH 2.54MM	
	3 PIN	IN_XLR, OUT_XLR, INPUT, OUTPUT, BYP	10	538-22-01-2037			PITCH 2.54MM	
	4 PIN	IN_XFRM, OUT_XFRM, CTRL_A, CTRL_B	8				PITCH 2.54MM	
	5 PIN	CTRL_C	2				PITCH 2.54MM	
	Solder Terminals			538-08-52-0123				
XLRs								
	XLR MALE		2					
	XLR FEMALE		2					

DR ZEN2 FRONT PANEL (2 CHANNELS)

VALUE	PCB	MOUSER	QTY	ALTERNATIVE			
RESISTORS							
	0R	R119		2	JUMPER		
	2K2	R105	271-2.2K-RC	2		PITCH 10MM	1/4W MF 1%
	3K3	R85	271-3.3K-RC	2		PITCH 10MM	1/4W MF 1%
	3K9	R86	271-3.9K-RC	2		PITCH 10MM	1/4W MF 1%
	4K7	R87	271-4.7K-RC	2		PITCH 10MM	1/4W MF 1%
	6K2	R88	271-6.2K-RC	2		PITCH 10MM	1/4W MF 1%
	7K5	R89	271-7.5K-RC	2		PITCH 10MM	1/4W MF 1%
	9K1	R90	271-9.1K-RC	2		PITCH 10MM	1/4W MF 1%
	11k	R91	271-11K-RC	2		PITCH 10MM	1/4W MF 1%
	13K	R92	271-13K-RC	2		PITCH 10MM	1/4W MF 1%
	18K	R93	271-18K-RC	2		PITCH 10MM	1/4W MF 1%
	22K	R94, R95	271-22K-RC	4		PITCH 10MM	1/4W MF 1%
	47K	R106, R96	271-47K-RC	4		PITCH 10MM	1/4W MF 1%
	100K	R97	271-100K-RC	2		PITCH 10MM	1/4W MF 1%
	130K	R98	271-130K-RC	2		PITCH 10MM	1/4W MF 1%
	200K	R99	271-200K-RC	2		PITCH 10MM	1/4W MF 1%
	220K	R101	271-220K-RC	2		PITCH 10MM	1/4W MF 1%
	270K	R102	271-270K-RC	2		PITCH 10MM	1/4W MF 1%
	330K	R103	271-330K-RC	2		PITCH 10MM	1/4W MF 1%
	470K	R104	271-470K-RC	2		PITCH 10MM	1/4W MF 1%
	820K	R108	271-820K-RC	2		PITCH 10MM	1/4W MF 1%
	4M99	R109, R110, R111, R112, R128, R130, R131, R133		16		PITCH 10MM	1/4W MF 1%
	OMMIT	R107, R115, R118,					
FILM CAPACITORS							
	10nF	C35, C39		4			PITCH 5MM
	15nF	C34, C38		4			PITCH 5MM
	22nF	C33, C37		4			PITCH 5MM
	33nF	C32, C36		4			PITCH 5MM
DIODES							
	OA202	D12		2	1N4153	DO 36	
ROTARY SWITCHES							
	1 POLE 12 STEP	ATTACK, RELEASE	10SM159	4			
	2 POLE 6 STEP	HPF	10SM160	2			
	24 STEP	INPUT, OUTPUT		4	INPUT 10K LOG POT		
TOGGLE SWITCHES							
	SPDT ON ON	FAST, LINK, PWR	506-A101SYCQ04	4			
	DPDT ON ON	BYP, LIM		4			
LEDS							
	3MM LED	BYP, PWR, LINK		4		DIAMETER 3MM	
KNOBS							
	KNOBs			12			
VU METER							
	2.4mA meter	GR METER		2	www.don-audio.com	ORDER HERE	
MOLEX HEADER							
	3 PIN	BYP		2		PITCH 2.54MM	
	4 PIN	CTRL_A, CTRL_B		4		PITCH 2.54MM	
	5 PIN	CTRL_C		2		PITCH 2.54MM	
MOLEX CRIMP HOUSING							
	3 PIN	BYP		2		PITCH 2.54MM	
	4 PIN	CTRL_A, CTRL_B		4		PITCH 2.54MM	
	5 PIN	CTRL_C		2		PITCH 2.54MM	
	SLD TRM			32		PITCH 2.54MM	

DR ZEN2 INPUT AND OUTPUT SWITCHES (2 CHANNELS)

VALUE		PCB	MOUSER	QTY	ALTERNATIVE			
OHM		INPUT SWITCH STEPS						
1	91	STEP 1	603-MFR-25FTE52-91R	2				
2	52.3	STEP 2	660-MF1/4DCT52R52R3F	2			PITCH 10MM	1/4W MF 1%
3	59	STEP 3	271-59-RC	2			PITCH 10MM	1/4W MF 1%
4	52.3	STEP 4	660-MF1/4DCT52R52R3F	2			PITCH 10MM	1/4W MF 1%
5	64.9	STEP 5	271-64.9-RC	2			PITCH 10MM	1/4W MF 1%
6	82.5	STEP 6	603-MFR-25FBF52-82R5	2			PITCH 10MM	1/4W MF 1%
7	102	STEP 7	271-102-RC	2			PITCH 10MM	1/4W MF 1%
8	130	STEP 8	271-130-RC	2			PITCH 10MM	1/4W MF 1%
9	165	STEP 9	603-MFR-25FBF52-165R	2			PITCH 10MM	1/4W MF 1%
10	205	STEP 10	660-MF1/4DC2050F	2			PITCH 10MM	1/4W MF 1%
11	261	STEP 11	660-MF1/4D52R2050F	2			PITCH 10MM	1/4W MF 1%
12	324	STEP 12	603-MFR-25FRF52-324R	2			PITCH 10MM	1/4W MF 1%
13	412	STEP 13	271-412-RC	2			PITCH 10MM	1/4W MF 1%
14	523	STEP 14	660-MF1/4CCT52R5230F	2			PITCH 10MM	1/4W MF 1%
15	649	STEP 15	271-649-RC	2			PITCH 10MM	1/4W MF 1%
16	825	STEP 16	271-825-RC	2			PITCH 10MM	1/4W MF 1%
17	1020	STEP 17	271-1.02K-RC	2			PITCH 10MM	1/4W MF 1%
18	1300	STEP 18	271-1.3K-RC	2			PITCH 10MM	1/4W MF 1%
19	1650	STEP 19	271-1.65K-RC	2			PITCH 10MM	1/4W MF 1%
20	2050	STEP 20	271-2.05K-RC	2			PITCH 10MM	1/4W MF 1%
OHM		OUTPUT SWITCH STEPS						
	3300	STEP 1		2			PITCH 10MM	1/4W MF 1%
	3300	STEP 2		2			PITCH 10MM	1/4W MF 1%
	2700	STEP 3		2			PITCH 10MM	1/4W MF 1%
	2400	STEP 4		2			PITCH 10MM	1/4W MF 1%
	2200	STEP 5		2			PITCH 10MM	1/4W MF 1%
	2000	STEP 6		2			PITCH 10MM	1/4W MF 1%
	1800	STEP 7		2			PITCH 10MM	1/4W MF 1%
	1600	STEP 8		2			PITCH 10MM	1/4W MF 1%
	1300	STEP 9		2			PITCH 10MM	1/4W MF 1%
	1300	STEP 10		2			PITCH 10MM	1/4W MF 1%
	1100	STEP 11		2			PITCH 10MM	1/4W MF 1%
	1000	STEP 12		2			PITCH 10MM	1/4W MF 1%
	910	STEP 13		2			PITCH 10MM	1/4W MF 1%
	820	STEP 14		2			PITCH 10MM	1/4W MF 1%
	680	STEP 15		2			PITCH 10MM	1/4W MF 1%
	620	STEP 16		2			PITCH 10MM	1/4W MF 1%
	510	STEP 17		2			PITCH 10MM	1/4W MF 1%
	510	STEP 18		2			PITCH 10MM	1/4W MF 1%
	430	STEP 19		2			PITCH 10MM	1/4W MF 1%
	330	STEP 20		2			PITCH 10MM	1/4W MF 1%

DR ZEN2 TRANSFORMERS (2 CHANNELS)

VALUE		PCB	QTY				
TRANSFORMERs							
	INPUT XFMR	RECCOMENDED RATIO 1:2	2	CARNHILL, MARINAIR, EDCOR, LUNDHL	FOR MORE COMPRESSION USE 1:4		
	OUTPUT XFMR	RECCOMENDED RATIO 1:2	2	CARNHILL, MARINAIR, EDCOR, LUNDHL	FOR MORE GAIN USE 1:4		
RESISOTRS							
	INPUT XFMR ZOBEL	R124	2		SEE TRANSFORMER DATASHEET		
	OUTPUT XFMR ZOBEL	R129	2		SEE TRANSFORMER DATASHEET		
	OUTPUT XFMR LOAD	R126	2		SEE TRANSFORMER DATASHEET		
CAPACITORS							
	INPUT XFMR ZOBEL	C40	2		SEE TRANSFORMER DATASHEET		
	OUTPUT XFMR ZOBEL	C30	2		SEE TRANSFORMER DATASHEET		
		CARNHILL OPTION					
	INPUT XFMR	VTB9046	2	LINE IN			
	OUTPUT XFMR	VTB9070	2	OUTPUT NOT GAPPED			
	C40 INPUT Z	2n2F	2				
	C30 OUTPUT Z	10nF	2				
	R124	OR(jumper)	2				
	R129	1K5	2				
	R126	1K2	2	OPTIONAL			
		MARINAIR OPTION					
	INPUT XFMR	31267	2	LINE IN			
	OUTPUT XFMR	LO2567	2	OUTPUT NOT GAPPED			
	C40 INPUT Z	2n2F	2				
	C30 OUTPUT Z	10nF	2				
	R124	OR(jumper)	2				
	R129	1K5	2				
	R126	1K2	2	OPTIONAL			
		EDCOR OPTION					
	INPUT XFMR		2	LINE IN			
	OUTPUT XFMR		2	OUTPUT NOT GAPPED			
		LUNDHL OPTION					
	INPUT XFMR	LL1540	2	LINE IN			
	OUTPUT XFMR	LL1524	2	OUTPUT NOT GAPPED			
	C40 INPUT Z		2				
	C30 OUTPUT Z		2				
	R124		2				
	R129		2				
	R126		2	OPTIONAL			
		SOWTER OPTION					
			2	LINE IN			
			2	OUTPUT NOT GAPPED			
	C40 INPUT Z	2n2F	2				
	C30 OUTPUT Z	10nF	2				
	R124	OR(jumper)	2				
	R129	1K5	2				
	R126	1K2	2	OPTIONAL			

DR ZEN2 AOT RESISTORS

STANDART AOT VALUES(OMMIT IF AOT TRIMS USED)							
1	RA1	330R	2		UNITY GAIN	1/4W MF 1%	PITCH 10MM
2	RA3	47K	2		COMP THRESHOLD ADJUST	1/4W MF 1%	PITCH 10MM
3	RA5	3K	2		LIM THRESHOLD ADJUST	1/4W MF 1%	PITCH 10MM
4	RA7	3K3	2		DISTORTION LEVEL ADJUST WITH 0dB GR	1/4W MF 1%	PITCH 10MM
5	RA10	10R	2		DISTORTION LEVEL ADJUST WITH 20dB GR	1/4W MF 1%	
OPTIONAL AOT TRIMs (USE FOR CUSTOM COMPRESSOR PARAMETERS, OMMIT IF AOT RESISTORS USED)							
6	RA2		2	CONNECTED PARALLEL WITH RA1		MULTI TURN	
7	RA4		2	CONNECTED PARALLEL WITH RA3		MULTI TURN	
8	RA6		2	CONNECTED PARALLEL WITH RA5		MULTI TURN	
9	RA8		2	CONNECTED PARALLEL WITH RA10		MULTI TURN	
10	RA9		2	CONNECTED PARALLEL WITH RA7		MULTI TURN	

BOM UPDATE HISTORY

[illegible]