

DR-NEQ3D V.1 BOARD - FULL STEREO PROJECT BOM

	VALUE	Qty	PCB	MOUSER	BANZAI	SIZE		NOTES
	VALUE		RESISTORS	MOUSER	BANZAI	SIZE		NOTES
1	0	12	LINK x 6			PITCH 10MM		use a piece of resistor leg
2	20	2	R6	71-RN60D20R0FTR		PITCH 10MM	1/4W MF 1%	
3	22	8	RPSU x 4	71-RN60D22R0F		PITCH 10MM	1/4W MF 1%	
4	47.5	4	R29 R32	71-RN60D-F-47.5		PITCH 10MM	1/4W MF 1%	can use 47R instead
5	64.9	2	R9	71-RN60D64R9F/R		PITCH 10MM	1/4W MF 1%	can use 64R instead
6	127	2	R12	71-RN60D1270F/R		PITCH 10MM	1/4W MF 1%	
7	200	2	R8	71-RN60D2000F/R		PITCH 10MM	1/4W MF 1%	
8	511	4	R11 R15	71-RN60D-F-511		PITCH 10MM	1/4W MF 1%	
9	1K	12	R7 R10 R13 R16 R19 R22	71-RN60D-F-1.0K		PITCH 10MM	1/4W MF 1%	
10	1.27 K	2	R14	71-RN60D-F-1.27K		PITCH 10MM	1/4W MF 1%	
11	1.54 K	2	R24	71-RN60D-F-1.54K		PITCH 10MM	1/4W MF 1%	
12	2.05 K	2	R18	71-RN60D2051F		PITCH 10MM	1/4W MF 1%	
13	3.3 K	3	R26 LED RESISTOR, POWER LED	71-RN60D3301F		PITCH 10MM	1/4W MF 1%	if needed use higher value
14	4.99 K	4	R3 R4	71-RN60D-F-4.99K		PITCH 10MM	1/4W MF 1%	
15	5.11 K	2	R17	71-RN60D5111F/R		PITCH 10MM	1/4W MF 1%	
16	8.25 K	2	R21	71-RN60D-F-8.25K		PITCH 10MM	1/4W MF 1%	
17	10 K	12	R1 R2 R5 R27 R28 R33	71-RN60D-F-10K		PITCH 10MM	1/4W MF 1%	
18	18.2 K	2	R25	71-RN60D1822FR36		PITCH 10MM	1/4W MF 1%	
19	20 K	8	R26 R30 R31 R47	71-RN60D2002F/R		PITCH 10MM	1/4W MF 1%	goes in series with 50k trimmer
20	20.5 K	2	R20	71-RN60D-F-20.5K/R		PITCH 10MM	1/4W MF 1%	can use 20K instead
21	82.5 K	2	R23	71-RN60D-F-82.5K		PITCH 10MM	1/4W MF 1%	can use 82K instead
	VALUE		POTENTIOMETERS	MOUSER			AML UK	NOTES
22	470k R. LOG	12	SUB 40Hz 160Hz 650Hz 2k5Hz Hi Shelf			center ident desired	OM-01-066	470K REV LOG
	VALUE		TRIMPOTS	MOUSER	BANZAI			NOTES
23	10K trimmer	12	R35 R37 R39 R41 R43 R45	72-T93YA-10K				potentiometer calibration
24	50k trimmer	2	R30	72-T93YA-50K				used to adjust the overall gain
	VALUE		INDUCTORS	MOUSER	BANZAI	SIZE		NOTES
25	100uH	4	L1 L2	542-78F101-RC		PITCH 10MM		
	VALUE		CERAMIC CAPACITORS	MOUSER	BANZAI	SIZE		NOTES
26	22pF	2	C13	594-K220J15C0GF5TL2		PITCH 2.5/5mm		
27	0.1uF	26	BYP x 13	594-K104M15X7RF53L2		PITCH 5MM		

	VALUE		FILM CAPACITORS	MOUSER	BANZAI	SIZE		NOTES
28	0.1uF	16	C6 C8 C10 C12 C16 C17 C18 C19	505-MKS2.1/63/5		PITCH 5MM		POLY
29	0.22uF	2	C20	505-MKS2C032201B00JA		PITCH 5-10MM		POLY
30	0.47uF	2	C21	505-MKS2D034701E00JS		PITCH 5-10MM		POLY
31	1uF	34	C3 C5 C7 C9 C11 C22 C23 C24 C25 C26 C27 C28 C51 C52 C53 C54 C55	505-MKS2C041001F00JA		PITCH 5-10MM		POLY
	VALUE		ELECTROLYTIC CAPACITORS	MOUSER	BANZAI	SIZE		NOTES
32	22uF	4	EC4 EC5	667-EEU-FC1J220		PITCH 3.5MM	63V	
33	47uF	10	EC1 EC2 EC3 EC4 EC5	647-ULD1J470MPD1TD		PITCH 2.5MM	25V/35V	
34	470uF	6	EC6 EC7 EC8	647-UVR1J471MHD		PITCH 3.5MM	63V	
	VALUE		IC	MOUSER	BANZAI	SIZE		
35	NE5532	10	U1 U2 U3 U4 U6	595-NE5532AP		DIP8		
36	NE5534	2	U5	595-NE5534AP		DIP8		
37	IC SOCKETS	12	U1 U2 U3 U4 U5 U6	575-199308		DIP8		
	VALUE		SWITCHES	MOUSER	BANZAI			NOTES
38	DPDT	2	BYPASS	506-A201SYZQ04				small toggle
39	SPDT	1	POWER	506-A101SYCQ04			230VAC	small toggle
40	2 x 6 LORLIN	2	HF SELECTOR	10SM130				
	VALUE		KNOBS	DON AUDIO	BANZAI	SIZE		NOTES
41	KNOBS	14		ELMA DA023-3510		12-14.5MM		OR PERSONAL CHOICE ;)
	VALUE		MOLEX HEADER	MOUSER	BANZAI	SIZE		
42	2 PIN	20	SUB 40Hz 160Hz 650Hz 2k5Hz Hi Shelf LED LED SW BYP SW	538-22-23-2021		PITCH 2.54MM		
43	3 PIN	8	INPUT OUTPUT	538-22-23-2031		PITCH 2.54MM		
44	3 PIN	2	POWER DC	538-26-60-4030		PITCH 3.96MM		
	VALUE		MOLEX CRIMP HOUSING	MOUSER	BANZAI	SIZE		
45	2 PIN	20	SUB 40Hz 160Hz 650Hz 2k5Hz Hi Shelf LED LED SW BYP SW	538-22-01-3027		PITCH 2.54MM		
46	3 PIN	8	INPUT OUTPUT	538-22-01-2037		PITCH 2.54MM		
47	3 PIN	2	POWER DC	538-09-50-3031		PITCH 3.96MM		
	VALUE		MOLEX TERMINALS	MOUSER	BANZAI	SIZE		
48	TERM. PINS	64	INPUT OUTPUT	538-08-50-0114		PITCH 2.54MM		
49	TERM. PINS	6	POWER DC	538-08-50-0106		PITCH 3.96MM		

	VALUE		XLRs	MOUSER	BANZAI			NOTES
50	XLR MALE		OUT LEFT, OUT RIGHT	568-NC3MD-LX	26422			Neutrik D series
51	XLR FEMALE		IN LEFT, IN RIGHT	568-NC3FD-LX	26420			Neutrik D series

	VALUE		LEDS	MOUSER	BANZAI	SIZE		NOTES
52	LED 3mm	2	BYPASS	593-VAOL-3MSBY2		3mm	BLUE	or use colour of your choice
	VALUE		VOLTAGE REGULATORS	MOUSER	BANZAI			NOTES
53	7812	2	7812	511-L7812CV	SKU 16017			12V reg TO220
			RELAYS	MOUSER	BANZAI			
54	DPDT 12VDC 1A	4	G5V-2 12V	653-G5V-2-H1-DC12	SKU 24239			
VALUE			RECTIFIERS	MOUSER	BANZAI			
55	1N4007 DIODE	4	D1 D2	625-1N4007-E3/54	SKU 24239			

PSU PCB

	VALUE		RESISTORS	MOUSER	BANZAI			NOTES
56	200	2	R1 R2	71-RN60D2000F/R		PITCH 10MM	1/4W MF 1%	
			TRIMPOTS	MOUSER	BANZAI			NOTES
57	5K trimmer	2	(+V_TRIM -V_TRIM)	72-T93YA-5K				VOLTAGE calibration
			CERAMIC CAPACITORS	MOUSER	BANZAI			NOTES
58	0.1uF	4	C3 C4 C7 C8	594-K104M15X7RF53L2		PITCH 5MM		
			ELECTROLYTIC CAPACITORS	MOUSER	BANZAI	SIZE		NOTES
59	100uF	4	C5 C6 C9 C10	667-EEU-FC1H101		PITCH 2.5MM	50V	LOW ESSR
60	4700uF	2	C1 C2	647-UVR1H472MRD6		PITCH 2.5MM	50V	LOW ESSR
VALUE			DIODES	MOUSER	BANZAI			NOTES
61	1N4007 DIODE	4	D1 D2 D3 D4	625-1N4007-E3/54	SKU 24239			
62	GBU 200V 8A		B2	512-GBU8D				8A DIODE BRIDGE
	VALUE		VOLTAGE REGULATORS	MOUSER	BANZAI			NOTES
63	LM337TS	1	337	512-LM317T				
64	LM317TS	1	317	863-LM337TG				
65	HEATSINK	2	337 317	532-513002B25G		25mm in height		
	VALUE		POWER	MOUSER	BANZAI	SIZE		NOTES
66	IEC INLET	1		693-6200.4330	24514			FUSE INCLUDED

67	FUSE 315 mA	2		693-0034.3112		5 x 20MM		second one is for reserve
68	LED 3mm	1	POWER	630-HLMP-1700		3mm	RED	or use colour of your choice
			CONNECTORS	MOUSER	BANZAI			NOTES
69	Terminal 2PIN	1	AC IN	651-5442565		PITCH 5.08MM		2PIN and 3 PIN combined
70	Terminal 3PIN	2	AC IN DC OUT	651-5442578		PITCH 5.08MM		

MOUSER CART <http://eu.mouser.com/ProjectManager/ProjectDetail.aspx?AccessID=5e29d12d65>