

ES9038PRO DAC - Parts List

Rate Exchange US\$ 1.2494

Update: 12-Oct-2017

ID	Description	PKG	Manufacturer	Part. No	Distrib	QTY	EA	Total	Note
DAC Section									
DAC	ES9038PRO DAC PCB		HQ Audio		HQ Audio	1	562.23 \$	562.23 \$	450 U\$
Controller	Front Panel controller + Remote		HQ Audio		HQ Audio	1	187.41 \$	187.41 \$	150 U\$
USB Interface	Amanero USB interface		Amanero		Amanero	1	0.00 \$	0.00 \$	Stock...
T1	Transfo. Dual Prim, 2x7V, Series 1.071A 15VA		Amgis	TE2250-ND	Digikey	1	23.73 \$	\$23.73	Original 2x6.5V/1.0A
							Total	\$773.37	
Tube I/V Section									
V1, V3	Tube, 12AU7, Dual Triode, gold pins, Matched pair		EH	TUBEEH-64461	PartsX	2	20.57 \$	41.14 \$	25% Discount
V2	Tube, 12AU7, Dual Triode, gold pins, Matched side		EH	TUBEEH-64461	PartsX	1	20.57 \$	20.57 \$	
	Matching fee			MATCHFEE	PartsX	1.5	6.25 \$	9.37 \$	
U1	IC, LM7806CT, Fix 6V Reg	TO220		512-LM7806CT	Mouser	1	\$0.82	\$0.82	
IC1	IC, LM311, Comparator	DIP8		595-LM311P	Mouser	1	\$0.80	\$0.80	
Q1	Trans. BC547, NPN	TO92			Mouser	1	\$0.10	\$0.10	
D1,2,4,5	Diode 1N4148	DO35			Local	4	\$0.10	\$0.40	
D3	Diode 1N4007	DO41			Local	1	\$0.10	\$0.10	
RL1 (Mute)	Relay, 5V, DPDT		Kemet	551-EA2-5NU	Mouser	1	\$2.32	\$2.32	
R*1, R*3	Res. 22K, 2W, 1%, MOX		Kiwave	KIWAME-66216	PartsX	2	1.37 \$	2.75 \$	
R1, R19, R*2, R*4	Compact Current Source Kit (up to 2W w/included heat sink)		K&K Audio		K&K Audio	4	17.49 \$	69.97 \$	
Replaced by CCS	Res. 33K, 2W, 1%, MOX		Kiwave	KIWAME-66220	PartsX	0	1.37 \$	0.00 \$	
R3,5,6,21,23,24	Res. 1K, 0.5W, 1% MF, RN60D		Vishay		Mouser	6	\$0.32	1.92 \$	
R7,25	Res. 100K, 0.5W, 1% MF, RN60D		Vishay		Mouser	2	\$0.32	0.64 \$	
R8,12,26,30	Res. 22R1, 0.25W, 1% MF, CMF55 Series		Vishay		Mouser	1	0.15 \$	0.15 \$	
R9, R13	Res. 100k, 0.5W, 1% MF, RN60D, Not Used				Mouser	0	\$0.00	0.00 \$	
R10, 11, 28, 29	Res. 475R, 0.5W, 1% MF, RN60D		Vishay		Mouser	4	\$0.32	1.28 \$	
R14, 15, 32, 33	Res. 33K, 2W, 1%, MOX		Kiwave	KIWAME-66220	PartsX	4	1.37 \$	5.50 \$	
R37, R41	Res. 1K, 1/4W. 1%, MF, MFR25 Series		Yageo	1.0KXBK-ND	Digikey	2	\$0.10	\$0.20	
R38	Res. 4K75, 1/4W. 1%, MF, MFR25 Series		Yageo	4.75KXBK-ND	Digikey	1	\$0.10	\$0.10	
R39	Res. 47K5, 1/4W. 1%, MF, MFR25 Series		Yageo	47.5KXBK-ND	Digikey	1	\$0.10	\$0.10	
R40	Res. 221K, 1/4W. 1%, MF, MFR25 Series		Yageo	221KXBK-ND	Digikey	1	\$0.10	\$0.10	
R42	Res. 10K, 1/4W. 1%, MF, MFR25 Series		Yageo	10.0KXBK-ND	Digikey	1	\$0.10	\$0.10	
R43	Res. 5K62, 1/4W. 1%, MF, MFR25 Series		Yageo	5.62KXBK-ND	Digikey	1	\$0.10	\$0.10	
R44	Res. 100K, 0.5W, 1% MF, RN60D		Vishay		Mouser	1	\$0.32	0.32 \$	
R45	Res. 47K, 2W, 1%, MOX, ERG Series		Panasonic	ERG-2SJ473	Digikey	1	0.47 \$	0.47 \$	
C1, C4	Cap. 2.2uF 450V, Mcap EVO Series	D25L21mm	Mundorf	MUNDORF-76398	PartsX	2	6.41 \$	\$12.82	
Other Choice	Cap. 1uF 650V, CSA Series		ClarityCap	CLARITY-81515	PartsX	0	10.61 \$	\$0.00	
Other Choice	Cap. 1uF 1KV, Mcap Supreme	D31L42mm	Mundorf	MUNDORF-70307	PartsX	0	85.43 \$	\$0.00	
C2, C3, C5, C6	Cap. 47pF, 50V, C0G Type	P5mm	TDK	FG28C0G1H470JNT6	Mouser	4	\$0.26	1.04 \$	QTY: 10
C7, C9	Cap. 4.7uF, 25V				Mouser	2	\$0.00	\$0.00	
C8	Cap. 470uF, 25V, FC Series	D7		P10274-ND	Digikey	1	\$0.00	\$0.00	
C10	Cap. 100uF, 25V				Mouser	1	\$0.00	\$0.00	
C11	Cap. 10uF 450V ELECT VZ RADIAL	Nichicon	D10mm	UVZ2W4R7MPD	Mouser	1	\$0.87	\$0.87	
IC1 socket	Socket DIP8				Mouser	1	\$0.10	\$0.10	
Conn Tube	Conn. 9 Pins, Ceramic, Gold contact		Connex	CONNEX-73285	PartsX	3	7.87 \$	23.61 \$	
Mute	Conn. 2 pins, 0.100", 22 Series		Molex	538-22-23-2021	Mouser	1	\$0.17	\$0.17	
	Header, 2 pins, 22 Series		Molex	538-22-01-3027	Mouser	1	\$0.11	\$0.11	
	RCA Connector, PCB mount			See comment	Ebay	1	12.97 \$	12.97 \$	
							Total	211.00 \$	
HV Supply Section									
U1	IC, LM317T, Adj. Volt Reg	TO220		LM317T	Mouser	1	\$0.75	\$0.75	
Other choice	IC, LT1084, Adj. Volt Reg	TO220		LT1084CT#PBF-ND	Digikey	0	\$11.49	\$0.00	
Q1, Q2	MOSFET, IRF840, N-CH, 500V, 8A	TO220	Vishay	844-IRF840PBF	Mouser	2	\$2.08	\$4.16	

Q3,5,8,10	JFET, 2SK170BL, N-CH	TO-92		Ebay	4	\$2.00	\$8.00	
Q4	Trans. MJE340, NPN, 300V, 1.5A	TO-225		Mouser	1	\$0.00	\$0.00	
Q6, Q7	MOSFET, IRF9610, 200V, 1.8A, P-CH	TO-220	Vishay	844-IRF9610PBF	Mouser	2	\$3.12	\$6.24
Q9	Trans. MJE350, NPN, 300V, 1.5A	TO-225		Mouser	1	\$0.00	\$0.00	
D1,8,9,16,17,20	Diode, 1N4007, Rectifier	DO41	On Semi	1N4007	Mouser	6	\$0.10	\$0.60
D4, D12	Zener, 12V, 0.5W	DO35	On Semi	BZX79C12	Mouser	2	\$0.19	\$0.38
D2, D12	Zener, 6.2V, 0.5W	DO35	On Semi	BZX79C6V2	Mouser	2	\$0.19	\$0.38
D3,5-7,11,13-15	Diode, UF4007, Fast Recovery, 1KV, 1A	DO41	On Semi	512-UF4007	Mouser	8	\$0.35	\$2.80
D18,19,21,22	Diode, SB560, Schottky, 60V, 5A	DO201AD	On Semi	512-SB560	Mouser	4	\$0.75	\$3.00
LED1	Led, 3mm, Green	3mm	Lite-On	160-1142-ND	Digikey	1	\$0.35	\$0.35
LED2	Led, 3mm, Yellow	3mm	Broadcom	516-1336-ND	Digikey	1	\$0.40	\$0.40
R1, 5, 9, 14, 19, 22	Res. 1K, 0.5W, 1% MF, RN60D		Vishay		Mouser	6	\$0.32	1.92 \$
R2, R15	Res. 47K, 2W, 1%, MOX, ERG Series		Panasonic	ERG-2SJ473A	Mouser	2	0.29 \$	0.58 \$
R3, R16	Res. 470R, 3W, 1%, WR, Draloric Series		Vishay	AC03000004700JAC00	Mouser	2	0.99 \$	1.98 \$
R4, R18	Res. 100K, 2W, 1%, MOX				Local	2	0.00 \$	0.00 \$
R7, R21	Res. 220K, 1W, 1%, 350V, MF, RS01 Series		Vishay	594-5073NW220K0J	Mouser	2	0.24 \$	0.48 \$
R8, R17	Res. 100R, 0.5W, 1% MF, RN60D		Vishay		Mouser	2	\$0.32	0.64 \$
R6, R20	Res. 3R3, 3W, MOX, 5%, ERX Series		Panasonic	ERX-3SJ3R3	Digikey	2	\$0.57	1.13 \$
R10 (not used)	Res. 220K, 2W, 1%, MF, PR02 Series		Vishay	PR02000202203JR500	Mouser	0	0.46 \$	0.00 \$
R12	Res. 10R, 2W, 1%, MOX, ERG Series		Panasonic	ERG-2SJ100	Mouser	1	0.58 \$	0.58 \$
R13 (not used)	Res. 47K, 2W, 1%, MOX, ERG Series		Panasonic	ERG-2SJ473A	Digikey	0	0.29 \$	0.00 \$
R24	Res. 221R, 1/4W, 1%, MF, MFR25 Series		Yageo	221XBK-ND	Digikey	1	\$0.10	\$0.10
VR1, VR2	Trimmer, 1k, 25T, Top Adjust, Vert.		Bourns	3299W-1-102LF	Digikey	2	\$4.88	\$9.76
VR3	Trimmer, 5k, 25T, Top Adjust, Vert.		Bourns	3299W-1-502LF	Digikey	1	\$4.88	\$4.88
C1, C9	Cap. 10uF, 50V, Electro, Muse Bi-Polar ES Series	D10	Nichicon	647-UES1H100MPM	Mouser	2	\$0.60	\$1.21
C15	Cap. 4700uF, 35V, Electro	D22P10	Elna	recycled...	Local	1	\$0.00	\$0.00
C16	Cap. 10uF, 25V, Electro	D6.3P2.5	Nichicon	recycled...	Local	1	\$0.00	\$0.00
C17	Cap. 220uF, 25V, Electro (470uF in stock)	D10P5	Nichicon	KMG Series	Local	1	\$0.00	\$0.00
C2, C10	Cap. 1uF, 450V, Film, MKP Series	D13L23	Mundorf	MUNDORF-70368	PartsX	2	5.23 \$	10.47 \$
C3, C11 (not used)	Cap. 100pF, 100V, Film	P5mm				0	\$0.34	\$0.00
C4,5,12,13	Cap. 100uF, 400V, Electro, TS-HC Series	D22P10	Panasonic	667-EET-HC2G101BA	Mouser	4	\$2.99	\$11.96
C6, C14	Cap. 10uF, 400V, Film, PB-MKP Series	D26L38	Solen	SOLEN-51555	PartsX	2	6.51 \$	13.02 \$
C7 (not used)	Cap. 1uF 450V ELECT VZ RADIAL	Nichicon	D6.3mm	UVZ2E010MED	Mouser	0	\$0.34	\$0.00
C8	Cap. 0.1uF, 400V, Film		Wima		Mouser	1	0.00 \$	0.00 \$
HS1-HS3	Heatsink, 647-15ABEP, Height 38mm (1.5") 3.5 C/W		Wakefield	647-15ABEP	Mouser	3	2.45 \$	7.35 \$
T2	Transfo, Dual Prim, 1V200Vac (0.1A), 2X12V (FIL) (1A ea), 40VA			R26-90	Ebay	1	47.95 \$	47.95 \$
T3	Transfo, Dual Prim, 115V sec, 50VA		Triad	553-N68X	Mouser	1	21.94 \$	21.94 \$
	PCB				HQ Audio	1	0.00 \$	0.00 \$
						Total		162.99 \$
	Chassis							
	Chassis, Ext W328,H70, D250mm (Int W310, High 63, D230mm)				HQ Audio	1	187.41 \$	187.41 \$
	Shipping				HQ Audio	1	187.41 \$	187.41 \$
						Total		374.82 \$

QTY: 10

filament lifter, used the one on Tube IV PCB

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25.38 + 13U\$ shipping