

Rpi-DAC Dual-Mono BOM Rpi DualMono BOM

Component	Value	pcs	package	Digikey part	Comments	Price	Sum	
PCM1794A		2		296-21537-1-ND	DAC	12.87	25.74	1206i=3216m
TPA6120A2		2		296-16920-5-ND	AMP	6.05	12.10	0603i=1608m
LME49990		12		LME49990MA-5/NOPB-ND	OPAMP	2.90	34.80	best noise
or: OPA827		12		296-24280-1-ND	OPAMP	10.10	121.20	JFET, better
or: OPA211		12	8SOIC	296-22634-1-ND	OPAMP	8.01	96.12	not tried, nice
TPS7A4700		12		296-34769-1-ND	LDO	5.70	68.40	
Headphone Jack	Stereo	1		CP1-3515SJPICT-ND	3.5mm	1.45	1.45	1 optional
Header	1x2	6		A30786-ND		0.85	5.10	3 optional
Header	1x3	1		641126-3-ND		0.81	0.81	optional
Header, female	2x4	1		S7107-ND, A106756-ND		0.84	0.84	for I2S Rpi
Jumper Header	2x3	4		A26569-ND	or 0R	2.24	8.96	optional
or:	2x3	4		OR1108-ND		0.42	8.96	
Jumper Header	2x2	2		A106735-ND	or 0R	1.01	2.02	optional
or:	2x2	2		OR1105-ND		0.21	0.42	
or:	2x2	2		A111881-ND		3.24	6.48	
Connector	1x2	7		A31112-ND	male	0.19	1.33	PCB-PCB
	1x2	7		A32932-ND	female	1.07	1.33	PCB-PCB
Connector	1x4	1		A31114-ND, S9014E-04-ND	male	0.29	1.33	PCB-PCB
	1x4	1		A32905-ND	female	1.31	1.33	PCB-PCB
Resistor	33R	8	0603	P33ABCT-ND	1.00%	0.10	0.80	
	10K	16		P10KDBCT-ND	0.10%	0.63	10.08	
or:	10K	2	0603	P10KBECT-ND	0.05%	1.38	2.76	
	1K	16		985-1373-1-ND	0.10%	0.67	10.72	
or:	1K	16		RG16N1.0KWCT-ND	0.05%			
	10R	2		P10.0ABCT-ND	1.00%	0.11	0.22	1/4W
or:	10R	2		CRT0603-BY-10R0ELFCT-ND	0.1%, 1/10W	0.58	1.16	
or:	10R	2		RNCF0805AKT10R0CT-ND	0.05%	1.20	2.40	0.1W, 0603
	0R	10		311-0.0GRCT-ND		0.10	1.00	
	1.24K	8		P1.24KABCT-ND	1.00%	0.11	0.88	
or:	1.24K	8		P1.24KDBCT-ND	0.10%	0.63	5.04	
	1.2K	8		P1.2KBECT-ND	0.05%	1.38	11.04	0.1W, 0603
	1.5K	8		408-1633-1-ND	0.01%	4.16	33.28	0.1W, 0805
	820R	4		P820ABCT-ND	1.00%	0.11	0.44	

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or:	820R	4		P820DBCT-ND	0.1%, 1/10W	0.63	2.52	
or:	820R	4		RG16N820WCT-ND	0.05%	0.88	3.52	0.1W, 0603
or:	1K	4		RNCF0805TKY1K00CT-ND	0.01%	2.16	8.64	0.1W, 0805
	360R	8		P360ABCT-ND	1.00%	0.11	0.88	
or:	360R	8		P360DBCT-ND	0.10%	0.63	5.04	
or:	360R	8		RG16N360WCT-ND	0.05%	0.88	7.04	0.1W, 0603
or:	350R	8		Y1624-350CT-ND	0.01%	14.33	114.64	0.25W, 0805
	715R	8		P715ABCT-ND	1.00%	0.11	0.88	
or:	715R	8		P715DBCT-ND	0.10%	0.63	5.04	
or:	750R	8		RG16N750WCT-ND	0.05%	0.88	7.04	0.1W, 0603
or:	680R	8		408-1643-1-ND	0.01%	4.16	33.28	0.1W, 0805
	1.3K	8		P1.30KABCT-ND		0.11	0.88	LED
	130R	2		P130ABCT-ND	1.00%	0.11	0.22	LED
Capacitor	2.7n	8	0603	399-9969-1-ND	5.00%	0.32	2.56	16V
or:	2.2n	8	0603	490-7768-1-ND	1.00%	0.24	1.92	NPO, 0603
	6.8n	8	0603	445-12081-1-ND	10.00%	0.12	0.96	16V
or:	6.8n	8	0603	587-1089-1-ND	5%,16V	0.49	3.92	16V
	6.8n	8	0603	399-1115-1-ND	1.00%	1.42	11.36	25V, 0603
or:	4.7n	8	0603	445-2712-1-ND	5%, 16V	0.24	1.92	16V
	4.7n	8	0603	399-9088-1-ND	1.00%	1.35	10.80	50V, 0603
	1μ	36	0603	445-7468-1-ND	50V	0.18	6.48	25V
	47μ	2	1206	445-11717-1-ND	25V	1.25	2.50	? where to get
	47μ	42	1206	445-11717-1-ND	25V	1.25	52.50	???
or:	68μ	24	1206	445-14673-1-ND	10V, 20%	1.65	39.60	
Osc.	24.576MHz	1	SMD 4pin	535-12038-1-ND	3.3V	4.88	4.88	optional
LED	ye/gr	10		VLMG1300-GS08CT-ND		0.73	7.30	optional
or:								
Sum						USD	814.86	+ TAX

or:	0.5R	4	1210	311-0.5NACT-ND	0.5W	0.74	2.96
Power Filter	Diode	4	1210	CMS06QMCT-ND	2A, Schottky	0.66	2.64
	Rack Mount	1	603-	1149-ND		13.04	13.04

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Heat Sinks

1	294-1147-ND		3.8	
3	345-1054-ND		1.26	
2	ATS1332-ND	19x19, red	6.94 1x	1x Rpi
7	ATS1195-ND	15x15	7.15 2x	1x Rpi
7	ATS1096-ND	15x15, blue	8.32	
2	AE10812-ND	6.5x19	0.61 2x	
7	AE10819-ND	8.5x6.35	0.61 14x	
11	AE10837-ND	10x10	0.78 3x	

or: THS6012 ?

609-3271-ND

Sheet1

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