

Rpi-DAC BOM rev.4

blue: optional

Component	Value	pcs	package	Digikey part	Comments	Price	Sum	0603i=1608m
PCM1794A		1	SMD	296-21537-1-ND	DAC	12.87	12.87	1206i=3216m
TPA6120A2		1	SMD	296-16920-5-ND	AMP	6.05	6.05	
LME49990		4	SMD	LME49990MA-5/NOPB-ND	OP	2.90	11.60	
TPS7A4700		6	QFP	296-34769-1-ND	LDO	5.70	34.20	
Bridge Rectifier	60V, 2A	4	SMD	641-1434-1-ND	RECT	0.84	3.36	if with AC in
Headphone Jack	Stereo	1	SMD	CP1-3515SJPICT-ND	3.5mm	1.45	1.45	
Header	1x2	6	through hole	A30786-ND		0.85	5.10	3 of 6 optional
Header	1x3	1	through hole	641126-3-ND		0.81	0.81	optional GND
Header, female	2x4	1	through hole	S7107-ND, A106756-ND		0.84	0.84	Rpi I2S
Jumper Header	2x3	2	through hole	A26569-ND	or 0R	2.24	4.48	optional
Jumper Header	2x2	1	through hole	A106735-ND	or 0R	1.01	1.01	optional
Resistor	33R	4	0603	P33ABCT-ND	1.00%	0.10	0.40	
	10K	5		P10KDBCT-ND	0.10%	0.63	3.15	optional with Jumper
	10K	3		P10KDBCT-ND	0.10%	0.63	1.89	on DAC
	1K	12		985-1373-1-ND	0.10%	0.67	8.04	
	10R	2		P10.0ABCT-ND	1.00%	0.11	0.22	
	0R	10		P541-0.0AGCT-ND	lot of 10x	0.09	0.90	instead jumper
	1.3K	4		P1.3KABCT-ND	1.00%	0.11	0.44	LED R 15V
	130R	1		P130ABCT-ND	1.00%	0.11	0.11	LED R 3.3V
Capacitor	2.7n	4	0603	399-9969-1-ND	5.00%	0.32	1.28	
	1μ	36	0603	445-7468-1-ND	50V	0.13	4.68	some optional
	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:	22μ	42	1206	1276-3047-1-ND	25V	0.50	21.00	Or:33/47 μF
	820μ	9	SMD 12x12	PCE5011CT-ND	25V	1.42	12.78	with AC in and RECT
Osc.	24.576MHz	1	SMD 4pin	535-12038-1-ND	3.3V	4.88	4.88	optional, no need on Rpi
LED	ye/gr	5		VLMG1300-GS08CT-ND		0.73	3.65	optional
Sum						USD	142.81	+ TAX

Sheet1

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	