

Rpi-DAC SPS BOM

Component	Value	pcs	package	Digikey part	Comments	Price	Sum (USD)	
Bridge Rectifier	60V, 2A	4		641-1434-1-ND	RECT	0.84	3.36	
LMZ14202H	2A	4	TO-PMOD-7	LMZ14202HTZ/NOPBCT-ND	SPS, 2A	13.79	55.16	
Resistor	100K	1		0603 P100KDBCT-ND	Ron, 5V, 0.1%	0.63	0.63 0603i=1608m	
	121K	1		0603 P121KDBCT-ND	Ron, 7V, 0.1%	0.63	0.63	
	316K	2		0603 P316KDBCT-ND	Ron, 17V, 0.1%	0.63	1.26	
	34K	4		0603 P34KDBCT-ND	Rfbb, all, 0.1%	0.63	2.52	
	6.49K	1		0603 P6.49KDBCT-ND	Rfbb, 5V, 0.1%	0.63	0.63	
	5.36K	1		0603 P5.36KHCT-ND	Rfbb, 7.3V, 1%	0.10	0.10	
	or:	4.53K	1		0603 P4.53KDBCT-ND	Rfbb, 6.8V, 0.1%	0.63	0.63
Capacitor	1.8K	2		0603 P1.8KDBCT-ND	Rfbb, 15.74V, 0.1%	0.63	1.26	
	1μ	8		0603 445-7468-1-ND	50V	0.13	1.04	
	47μ	28		1206 445-11717-1-ND	25V, 20%	1.25	35.00 available??	
	or:	22μ	28		1206 1276-3047-1-ND	25V	0.50	14.00 or: 33/47μ
	or:	33μ	28		1206 445-11710-1-ND	25V	1.25	35.00 1206i=3216m
	820μ	8	SMD 12x12	PCE5011CT-ND	25V	1.42	11.36	
	4.7n	4		0603 445-2712-1-ND	25V, 5%	0.24	0.96	
	22n	4		0603 1276-1995-1-ND	25V, 5%	0.10	0.40	
Inductor	12μH	4	SMD 7x7.8	308-1870-1-ND	2A	0.82	3.28 or hand made	
Power Filter	10A	1	Rack Mount	603-1149-ND	switch, fuse	13.04	13.04 or w/o filter?	
Connector	1x2 male	8		A30786-ND	gold	0.85	6.80	
connector cables	1x2 female	3			connect DC-DAC			
Sum							117.06 + TAX	
Weiliang Transformer 50VA		1	Toroid	http://diyhifishop.com/115v232*15V, 2*9V		47.88	47.88	