

O2 HEADPHONE AMPLIFIER UPGRADE BOARD BOM, agdr, sergey888, 2013

part		mfgr	mfgr number	mouser	each	ttl	
250mA audio current buffer dpak5	2	IC2, IC3	TI	LME49600TS/NOPB	926-LME49600TS/NOPB	\$5.17	\$10.34
FET input low distortion op amp soic8	1	IC1	TI	OPA2140AID	595-OPA2140AID	\$6.43	\$6.43
47uF 35V 10% solid tantalum 2917 0.2R	3	C1, C2, C3	Kemet	T495X476K035ATE200	80-T495X476K035AT	\$2.67	\$8.01
10uF 50V 10% X7R MLCC 1210 SMD	4	C8, C9, C12, C13	AVX	UMK325AB7106KM-T	963-UMK325AB7106KM-T	\$0.93	\$3.72
0.1uF 50V COG MLCC 1206 SMD	2	C4, C5	murata	GRM31C5C1H104JA01L	81-GRM31C5C1H104JA1L	\$0.70	\$1.40
33pF 50V 1% COG MLCC 1206 SMD	4	C6, C7, C10, C11	AVX	12065A330FAT2A	581-12065A330F	\$0.60	\$2.40
3.3K 0.1% 1/4W 25 PPM/K 1206 SMD thin film	2	R3, R5	vishay	TNPW12063K30BEEN	71-TNPW12063K30BEEN	\$0.85	\$1.70
PC board 4 layer, in QTY 5, each	1		Seeed	Fusion 4 layer 1.6mm 50mmx100mm		\$12.00	\$12.00
DIP headers, 24 pin, snappable	1		FCI	68024-412HLF	649-68024-412HLF	\$0.55	\$0.55

GRAND TOTAL

\$46.55

OPTIONAL POWER RAIL LEDS, POWER MANAGEMENT LATCH CIRCUIT, & 1/4 NEUTRIK JACK

10K 0.1% 1/4W 25 PPM/K 1206 SMD thin film	2	R1, R2	vishay	TNPW120610K0BEEA	71-TNPW120610K0BEEA	\$0.55	\$1.10
green LEDs, 1204 SMD, right angle	2	LED1, LED2	avago	HSMG-C110	630-HSMG-C110	\$0.27	\$0.54
1/4" slimline neutrik PC jack	1	J1	neutrik	NRJ3HF-1	568-NRJ3HF-1	\$0.55	\$0.55
4.7meg 1% 1/4W 100 PPM/K 1206 SMD thick film	1	R7	vishay	CRCW12064M70FKEA	71-CRCW1206-4.7M-E3	\$0.10	\$0.10
2.2uF 50V 5% X7R MLCC 1206 SMD	1	C14	kemet	C1206C225J5RACTU	80-C1206C225J5R	\$1.16	\$1.16
2N7002 n-channel mosfets, SOT23	2	Q1, Q2	ON semi	2N7002LT1G	863-2N7002LT1G	\$0.15	\$0.30

OPTIONS TOTAL

\$3.75