

agdr version of the O2 Desktop Amplifier - ODA
Based on NwAGuy/RocketScientist O2 Headphone Amp
Front amplifier PCB BOM 2-1-2013
Goes with ODA 12 B05D01 B054 after fab

part	function	part number	qty	order	ref #	each	TL - base	TL - case PCB	supplier	Manufacturer	Subkey	Altied	Partail UK / Element14 / RS	Notes
JACKS, SWITCHES, HEADERS, AND WIRE JUMPER														
1 3mm stereo jack, vertical, PC mount, with switch	Input signal jack	10	1	Switchcraft	10MPC408V	\$2.24	\$2.24		502-10MPC408V	502-10MPC408V	502-10MPC408V		502-10MPC408V	
1 3mm stereo jack, vertical, PC mount, without switch	Output headphone jack	10	1	Switchcraft	10MPC408V	\$1.95	\$1.95		502-10MPC408V	502-10MPC408V	502-10MPC408V		502-10MPC408V	
1 4-pin stereo jack, no switch	Output 1/4" headphones	1	1	Switchcraft	40MPC4	\$0.95	\$0.95		508-40MPC4	508-40MPC4	508-40MPC4		508-40MPC4	
1 6-pin RCA jack, vertical mount	Line input jack	1	1	Edcor	6A-4131-F	\$0.09	\$0.09		6A-4131-F	6A-4131-F	6A-4131-F		6A-4131-F	
1 6-pin stereo jack, 3mm center pin 5.5mm outer, PCB mount	Output signal jack	10	1	Switchcraft	60MPC22A	\$1.20	\$1.20		502-60MPC22A	502-60MPC22A	502-60MPC22A		502-60MPC22A	
Output unimp. PCB RCA jack, horizontal mount	Input or pre-amp output	1	1	Edcor	6P42K-605-WR	\$1.91		\$1.91	806-ALPAC-605-WR	806-ALPAC-605-WR	806-ALPAC-605-WR		806-ALPAC-605-WR	
Bayonet switch, DPDT	Gain switch	10	1	Alpha	1051010T-1024-2008-C7-W	\$5.86	\$5.86		105-1051010T-1024	105-1051010T-1024	105-1051010T-1024		105-1051010T-1024	
DPDT toggle switch, vertical toggle	Input selector switch	10	1	Shurtron Switch	108-1000-1700000-PCN	\$3.65	\$3.65		108-1000-1700000-PCN	108-1000-1700000-PCN	108-1000-1700000-PCN		108-1000-1700000-PCN	
DPDT pushbutton switch	Voltage selector, input jack	22-54	2	CBK	2762-2N426102C	\$3.61	\$3.22		612-2762-2N426102C	612-2762-2N426102C	612-2762-2N426102C		612-2762-2N426102C	
Output panel control DPDT rotary for damping factor switch, 0.5ohm	Output selector	1	1	CBK	48800-1N0000	\$31.21		\$31.21	612-48800-1N0000	612-48800-1N0000	612-48800-1N0000		612-48800-1N0000	
2 pin header - optional	Input signal, bias select switch	JP1, JP2, JP3, JP6	5											
3 pin header - optional	Output	JP4	5											
4 pin header - optional	Power rails and ground test pt	JP5, JP7, JP8	5											
4mm jumper wire - use 22 gauge twisted wire		JP2, JP3	3											
4mm jumper wire - use 22 gauge twisted wire		JP8	1											
40mm jumper wire - use 22 gauge twisted wire		JP6	1											
42mm jumper wire - use 22 gauge twisted wire		JP5	1											
Subtotal for this section						\$31.02		\$31.02						
IC TRANSISTOR														
Op amp, single, ultra low noise ultra low distortion, SOIC-8	Gain stage	IC1, IC2	2	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
Op amp, dual, high accuracy, SOIC-8	Output current buffer	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
Op amp, dual, low precision, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
Op amp, dual, high accuracy, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
Op amp, dual, high accuracy, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
Positive low noise LDO voltage regulator	Positive, rail up LDO	IC8	1	Linear Technology	1176340400W	\$4.54	\$4.54		1176340400W	1176340400W	1176340400W		1176340400W	
Positive voltage regulator, LDO, 2.5V, 1.5A	Positive, rail up LDO	IC8	1	Linear Technology	1176340400W	\$4.54	\$4.54		1176340400W	1176340400W	1176340400W		1176340400W	
Positive low noise LDO voltage regulator	Positive, rail up LDO	IC8	1	Linear Technology	1176340400W	\$4.54	\$4.54		1176340400W	1176340400W	1176340400W		1176340400W	
Negative voltage regulator, LDO, 2.5V, 1.5A	Negative, rail down	IC9	1	Linear Technology	1176340400W	\$4.54	\$4.54		1176340400W	1176340400W	1176340400W		1176340400W	
Positive load reg. LDO voltage regulator	Positive, rail up LDO	IC8	1	Linear Technology	1176340400W	\$4.54	\$4.54		1176340400W	1176340400W	1176340400W		1176340400W	
Negative load reg. LDO voltage regulator	Negative, rail down	IC9	1	Linear Technology	1176340400W	\$4.54	\$4.54		1176340400W	1176340400W	1176340400W		1176340400W	
Op amp, dual, high accuracy, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
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Op amp, dual, high accuracy, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
Op amp, dual, high accuracy, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
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Op amp, dual, high accuracy, SOIC-8	IC3, IC4, IC5, IC6, IC7	IC3, IC4, IC5, IC6, IC7	4	Texas Instruments	144599900NA7009	\$2.58	\$5.16		202-144599900NA7009	144599900NA7009	144599900NA7009		144599900NA7009	
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