

Variant: 001
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AMPS131 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		AMPS131	Any	Printed Circuit Board	
2	C1, C2	2	2.2uF	CGA4J3X7R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
3	C3, C4, C8, C9, C14, C15	6	0.22uF	C1005X5R1C224K050BB	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X5R, 0402	402
4	C5, C6, C10, C13	4		TWK107B7104MVHT	Taiyo Yuden	Cap Ceramic 0.1uF 25V X7R 20% Wide Terminal SMD 0306 125C Automotive T/R	306
5	C7	1	330pF	GRM31A5C2J331JW01D	MuRata	CAP, CERM, 330 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
6	C11	1	56pF	GRM1555C1E560JA01D	MuRata	CAP, CERM, 56 pF, 25 V, +/- 5%, C0G/NP0, 0402	402
7	C12	1	2pF	GRM1555C1H2R0CA01D	MuRata	CAP, CERM, 2 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
8	C16	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
9	GND1, VCC1, VEE1	3		108-0740-001	Cinch Connectivity	Standard Banana Jack, Uninsulated, 15A	Banana Jack
10	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
11	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
12	J1, J2, J3	3		142-0701-851	Cinch Connectivity	Connector, End launch SMA, 50 ohm, SMT	SMA End Launch
13	R1, R2	2	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100, 5%, 0.1 W, 0603	603
14	R3, R7	2	50	FC0603E50R0BTBST1	Vishay Thin Film	RES, 50, 0.1%, 0.125 W, 0603	603
15	R4	1	13.0k	CRCW040213K0FKED	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
16	R5	1	10	RMCF0402JT10R0	Stackpole Electronics Inc	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
17	R8	1	10.0Meg	CRCW040210M0FKED	Vishay-Dale	RES, 10.0 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
18	R9	1	787k	CRCW0402787KFKED	Vishay-Dale	RES, 787 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
19	R10	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
20	R11	1	17.8k	CRCW040217K8FKED	Vishay-Dale	RES, 17.8 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
21	R12, R14, R19	3	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
22	R13	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
23	R15	1	78.7k	CRCW040278K7FKED	Vishay-Dale	RES, 78.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
24	R16	1		3296W-1-254LF	Bourns	250 kOhms 0.5W, 1/2W PC Pins Through Hole Trimmer Potentiometer Cermet 25 Turn Top Adjustment	PTH_3
25	R18	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
26	R21	1	10.0k	RC0603FR-0710K	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
27	TP1, TP2	2		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
28	U1	1		BUF802IRGT	Texas Instruments	BUF802IRGT	VQFN16
29	U2	1		OPA140AIDBVT	Texas Instruments	11 MHz, Single Supply, Low Noise, Precision, Rail-to-Rail Output, JFET Amplifier, 4.5 to 36 V, -40 to 125 degC, 5-pin SOT23 (DBV5), Green (RoHS & no Sb/Br)	DBV0005A
30	C17, C18, C19	0	0.22uF	C1005X5R1C224K050BB	TDK	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X5R, 0402	402
31	D1, D2	0	2V	MMSZ4679T1G	ON Semiconductor	Diode, Zener, 2 V, 500 mW, SOD-123	SOD-123
32	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
33	R6	0	50	FC0603E50R0BTBST1	Vishay Thin Film	RES, 50, 0.1%, 0.125 W, 0603	603
34	R17	0	32.4k	RT0603BRD0732K4L	Yageo America	RES, 32.4 k, 0.1%, 0.1 W, 0603	603
35	R20	0	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402