

Variant: 001
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XXX### REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		XXX###	Any	Printed Circuit Board	
2	C1, C2	2	4.7µF	CGA4J1X7R1H475K125AC	TDK Corporation	Cap Ceramic 4.7uF 50V X7R 10% Pad SMD 0805 +125°C Automotive T	0805
3	C3	1	1µF	GMC10X7R105K50NT	Cal-Chip Electronics	1 µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	0603
4	C4, C5	2	2.2uF	C1608X5R1V225K080AC	TDK	CAP, CERM, 2.2 uF, 35 V, +/- 10%, X5R, 0603	0603
5	C6, C7, C8, C9, C14, C15, C18, C19, C24, C25, C28, C29	12	0.1uF	06035C104JAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 5%, X7R, 0603	0603
6	C10, C11, C12, C20, C22, C23, C30, C31, C32	9	100nF	AC0805KRX7R8BB104	Yageo	0.1 µF ±10% 25V Ceramic Capacitor X7R 0805 (2012 Metric)	0805
7	C13, C16, C17, C21, C26, C27	6	22µF	GMC21X5R226M35NT	Cal-Chip Electronics	22 µF ±20% 35V Ceramic Capacitor X5R 0805 (2012 Metric)	0805
8	C33, C34	2			Würth Elektronik	WCAP-ATG5 Aluminum Electrolytic Capacitor, Radial, THT, D5 x H11mm	
9	C35, C36, C37, C38, C39, C40	6	0.01uF	C0603H103J3GACTU	Kemet	CAP, CERM, 0.01 uF, 25 V, +/- 5%, C0G/NP0, 0603	0603
10	D1	1	40V	SD103AWS-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.35 A, SOD-323	SOD-323
11	J1, J2, J3	3		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
12	J3	1		6.32723E+11	Würth	USB-C (USB TYPE-C) USB 3.2 Gen 2 (USB 3.1 Gen 2, Superspeed + (USB 3.1)) Receptacle Connector 24 Position Surface Mount, Right Angle Through Hole	CONN_USB_8MM74_11MM20
13	J6	1		SFH11-PBPC-D05-RA-BK	Sullins Connector Solutions	Receptacle, 2.54mm, 5x2, Gold, R/A, TH	Receptacle, 2.54mm, 5x2, R/A, TH
14	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
15	R1, R39, R42	3	9.88k	RT0603BRD079K88L	Yageo America	RES, 9.88 k, 0.1%, 0.1 W, 0603	0603
16	R2	1	54.2k	RT0603BRD0754K2L	Yageo America	RES, 54.2 k, 0.1%, 0.1 W, 0603	0603
17	R3	1	0	RC0603JR-130RP	Yageo	Resistor Thick Film 0603 Jumper 0 Ohm ±5% 1/10W Molded Paper T/R	0603
18	R4, R7	2	50.5k	RT0603DRE0750K5L	Yageo America	RES, 50.5 k, 0.5%, 0.1 W, 0603	0603
19	R5, R6	2	5.10k	RG1608P-512-B-T5	Susumu Co Ltd	RES, 5.10 k, 0.1%, 0.1 W, 0603	0603
20	R8	1	52.3k	RT0603BRD0752K3L	Yageo America	RES, 52.3 k, 0.1%, 0.1 W, 0603	0603
21	R9, R10, R11, R12, R13, R14	6	47.5k	RT0603BRD0747K5L	Yageo America	RES, 47.5 k, 0.1%, 0.1 W, 0603	0603
22	R15, R21, R27	3	500	MCT06030D5000BP100	Vishay	Res Thin Film 0603 500Ω 0.1% 0.1W ±25ppm/°C Molded SMD Paper T	0603
23	R16, R17, R18, R22, R23, R24, R28, R29, R30	9	120	RT0603BRD07120RL	Yageo America	RES, 120, 0.1%, 0.1 W, 0603	0603
24	R19, R25, R31	3	23.7	RT0603BRD0723R7L	Yageo America	RES, 23.7, 0.1%, 0.1 W, 0603	0603
25	R20, R26, R32	3	95.3	RT0603BRD0795R3L	Yageo America	RES, 95.3, 0.1%, 0.1 W, 0603	0603
26	R33, R35, R40	3	50.5k	RT0603BRD0750K5L	Yageo America	RES, 50.5 k, 0.1%, 0.1 W, 0603	0603
27	R34, R37, R41	3	8.87k	RT0603BRD078K87L	Yageo America	RES, 8.87 k, 0.1%, 0.1 W, 0603	0603
28	R36, R38, R43	3	100k	ERA-3AEB104V	Panasonic	Res Thin Film 0603 100K Ohm 0.1% 0.1W ±25ppm/°C Molded SMD Punched Carrier T/R	0603
29	R44, R45, R46, R47, R48, R49	6	16.0k	RT0603BRD0716KL	Yageo America	RES, 16.0 k, 0.1%, 0.1 W, 0603	0603
30	SW1, SW2, SW3	3		76SB06ST	Grayhill	Switch, SPST, Off-On, 6 Pos, 0.15 A, 30 VDC, TH	Body 9.65x17.3mm
31	U1, U4, U6	3		INA828ID	Texas Instruments	50-µV Offset, 7-nV/√Hz Noise, Low-Power, Precision Instrumentation Amplifier, D0008A (SOIC-8)	D0008A
32	U2, U5, U7	3		TLV9001R1DBVR	Texas Instruments	Low-Power, Rail-to-Rail In and Out, 1-MHz Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A
33	U3	1		LM27762DSSR	Texas Instruments	Low-Noise Positive- and Negative-Output Charge Pump With Integrated LDO, DSS0012B (WSON-12)	DSS0012B

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