

Variant: 001  
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N/A REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		N/A	Any	Printed Circuit Board	
2	1Y, 2Y, 3V3, DGND, HGND	5		S2761-46R	Harwin	Natural PC Test Point Brass, SMT	Natural PC Test Point Brass, SMT
3	C1, C27	2	100pF	C0402C101J3GACTU	Kemet	CAP, CERM, 100 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
4	C2	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
5	C3	1	0.47uF	GRM155R61C474KE01	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X5R, 0402	0402
6	C4	1	10uF	GRM188R61A106KAALD	MuRata	CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0603	0603
7	C5	1	0.01uF	C1005X7R1C103K050BA	TDK	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
8	C6	1	1uF	LMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
9	C7, C9, C12, C15, C16, C18	6	100pF	8.85012E+11	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
10	C8, C17	2	4700pF	C0603C472J1GAC7867	Kemet	CAP, CERM, 4700 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
11	C10, C19, C23, C24	4	1000pF	C0603C102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
12	C11, C13, C21	3	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
13	C14, C20, C22	3	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
14	C25	1	1uF	CGA3E1X7R1V105K080AE	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
15	C26	1	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	0603
16	C28	1	0.01uF	04023C103JAT2A	AVX	CAP, CERM, 0.01 uF, 25 V, +/- 5%, X7R, 0402	0402
17	D1	1	Green	150060VS75000	Würth Elektronik	LED, Green, SMD	LED_0603
18	D2	1	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603
19	D3	1	Red	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
20	FB3, FB4, FB5, FB7	4		BLM21HE472SH1L	Murata	4.7 kOhms @ 100 MHz 1 Signal Line Ferrite Bead 0805 (2012 Metric) 850mA 400mOhm	0805
21	FB6, FB8	2		74269244182	Würth Electronics	1.8 kOhms @ 100MHz 1 Power, Signal Line Ferrite Bead 0402 (1005 Metric) 210mA 2.1Ohm	0402
22	J1, J3, J9	3		PBC04SAAN	Sullins Connector Solutions	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54 mm, 4x1, TH
23	J2, J10, J11, J12	4		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
24	J4, J5, J6, J7	4		63824-1	TE Connectivity		CONN_7MM92_3MM11
25	J8	1		802-10-012-10-001000	Mil-Max	Header, 2.54 mm, 6x2, Gold, TH	Header, 2.54 mm, 6x2, TH
26	R1	1	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
27	R2, R3, R20	3	820	RC0402FR-07820RL	Yageo America	RES, 820, 1%, 0.063 W, 0402	0402
28	R4, R5, R6	3	330k	TNPV1206330KBEEN	Vishay Draloric	RES, 330 k, 0.1%, 1 W, 1206	1206
29	R7	1		B72214S2461K101	TDK	Var MOV 460VAC/615VDC 5000A 750V Thru-Hole Radial Bulk	RADIAL
30	R8	1	750	RG1608P-751-B-T5	Susumu Co Ltd	RES, 750, 0.1%, 0.1 W, 0603	0603
31	R9, R11, R12, R21	4	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
32	R10	1	0.003	CRE2512-FZ-R003E-3	Bourns	RES, 0.003, 1%, 3 W, AEC-Q200 Grade 0, 2512	2512
33	R14, R15, R17	3	10.0k	CRCW040210K0DHEDP	Vishay-Dale	RES, 10.0 k, 0.5%, 0.063 W, 0402	0402
34	R16	1	10	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R18, R19	2	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
36	U1	1		MSPM0G1106TRHBR	Texas Instruments	Mixed-Signal Microcontrollers VQFN32 ARM 32-bit Cortex-M0+ 80MHz 28 I/O's 64KB Flash 32KB SRAM	VQFN32
37	U2	1		AMC131M03DFM	Texas Instruments	3-Channel, Simultaneously-Sampling, 24-Bit, Reinforced Isolated DeltaSigma ADC With Integrated DC/DC Converter	SOIC20
38	U3	1		TLV76133DCYR	Texas Instruments	1-A 16-V high-PSRR linear voltage regulator 4-SOT-223 -40 to 125	SOT-223-4
39	U4	1		SN74LVC2G07DCKT	Texas Instruments	Dual Buffer/Driver with Open-Drain Output, DCK0006A (SOT-SC70-6)	DCK0006A
40	Y1	1		LMK6CxxxDLF	Texas Instruments	Low Jitter, High-Performance BAW Oscillator	VSON4
41	D4, D5, D6, D7	0	70V	BAV199-TP	Micro Commercial Component	Diode, Switching, 70 V, 0.215 A, SOT-23	SOT-23
42	FID1, FID2	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
43	R13	0	0.001	CRF1206-FZ-R001ELF	Bourns	RES, 0.001, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206

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