

Variant: 001
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PSIL082 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PSIL082	Any	Printed Circuit Board	
2	C1, C2	2	12pF	CL05C120JB5NNNC	Samsung Electro-Mechanics	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
3	C3	1	10uF	885012207026	Würth Elektronik	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	0805
4	C4	1	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C5, C6, C7, C9, C10	5	0.1uF	885012206046	Würth Elektronik	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603
6	C8	1	1000pF	885012206083	Würth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
7	D1	1	Green	LTST-C190KGKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
8	J1	1		N2514-6002-RB	3M	Header (shrouded), 100mil, 7x2, Gold, TH	7x2 Header
9	J2, J5, J6, J15, J16	5		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
10	J3, J7, J8, J9, J11, J17, J18	7		TSW-112-07-G-S	Samtec	Header, 100mil, 12x1, Gold, TH	12x1 Header
11	J10	1		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
12	J12	1		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
13	J13, J14	2		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
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	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
16	R2, R3	2	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
17	R4, R5, R6, R8, R9, R10, R11	7	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
18	R7	1	2.00Meg	CRCW04022M00FKED	Vishay-Dale	RES, 2.00 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
19	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5	5	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
20	U1	1		MSP430F5234IRGZR	Texas Instruments	Ultra-Low Power MSP430 with 128 KB Flash, RGZ0048A (VQFN-48)	RGZ0048A
21	U2	1		TS3A5223RSWR	Texas Instruments	0.5Ω Dual SPDT Bidirectional Analog Switch, RSW0010A (UQFN-10)	RSW0010A
22	U3	1		PCA9538PWR	Texas Instruments	Remote 8-Bit I2C and SMBus Low-Power I/O Expander With Interrupt Output, Reset, and Config Registers, PW0016A (TSSOP-16)	PW0016A
23	Y1	1		FC-135 32.7680KA-AG0	Epson	Crystal, 32.768 KHz, 20 ppm, 7 pF, SMD	SMD, 2-Leads, Body 3.2x1.5mm
24	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
25	J4	0		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
26	R12	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402