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PSIL083 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PSIL083	Any	Printed Circuit Board	
2	C1	1	0.01uF	GRM155R60J103KA01D	Murata Electronic	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
3	C2, C3, C5, C6, C7, C8, C9, C11, C12	7	1uF	GCJ31CR71A105KA13K	Murata	CAP, CERM, 1 µF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
4	C4, C14, C15, A, C16, B, C16, C, C16, D, C16, E, C16, F, C16, A, C16, B, C16, C, C16, D, C16, E, C16, F, C17, A, C17, B, C17, C, C17, D, C17, E, C17, F, C18, A, C18, B, C18, C, C18, D, C18, E, C18, F, C19, A, C19, B, C19, C, C19, D, C19, E, C19, F, C20, A, C20, B, C20, C, C20, D, C20, E, C20, F, C21, A, C21, B, C21, C, C21, D, C21, E, C21, F, C22, A, C22, B, C22, C, C22, D, C22, E, C23, F, C26, C28, C30, C34	16	0.1uF	C1812V701KXAWM13GKA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
5	C5	1	1uF	C1206C105K3RAC7800	Kemet-Ipg	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, 0603	0603
6	C17	1	10uF	GRM31MR71E106KA12L	Murata Electronic	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 0805	0805
7	C9	1	1000pF	C0603BB5C3H102HJ1D	Kemtron	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NPO, 0603	0603
8	C10, C33, C11, C32, C29	5	0.1uF	GRM31CR60J106KAC7L	Murata Electronic	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X5R, 0603	0603
9	C13_A, C13_B, C13_C, C13_D, C13_E, C13_F	6	0.1uF	C1206C107K1A1100KA01AE	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
10	C14_A, C14_B, C14_C, C14_D, C14_E, C14_F	6	0.1uF	C0603C103K4RACTU	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0805	0805
11	C23	1		C1608X5R1H223FA10D	Tdkcorp	1206pF ±1% 50V Ceramic Capacitor C0G, NPO 0802 (1005 Metric)	0402
12	D1_A, D1_B, D1_C, D1_D, D1_E, D1_F, D1_A, D2_B, D2_C, D2_D, D2_E, D2_F, D3_A, D3_B, D3_C, D3_D, D3_E, D3_F, D4_A, D4_B, D4_C, D4_D, D4_E, D4_F	24	5V	CG0603A-SR70	Bourns	ESD Suppressor Diode Array, 5V, SMD	0.0603L0301.8
13	F1_A, F1_B, F1_C, F1_D, F1_E, F1_F, F2_A, F2_B, F2_C, F2_D, F2_E, F2_F, F3_A, F3_B, F3_C, F3_D, F3_E, F3_F, F4_A, F4_B, F4_C, F4_D, F4_E, F4_F, F5_A, F5_B, F5_C, F5_D, F5_E, F5_F, F6_A, F6_B, F6_C, F6_D, F6_E, F6_F, F7_A, F7_B, F7_C, F7_D, F7_E, F7_F, F8_A, F8_B, F8_C, F8_D, F8_E, F8_F	48		C15 1.5	Bel Fuse	Fuse, 1.5 A, 63VAC/VDC, SMD	1206
14	J1	1		TSW-112-07-G-D	Samtec	Header, 100mil, 12x2, Gold, TH	12x2 Header
15	J2	1		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
16	J3	1		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
17	J5_A, J5_B, J5_C, J5_D, J5_E	5		TSW-108-08-G-D	Samtec	Header, 100mil, 8x2, Gold, TH	8x2 Header
18	L1	1	100uH	74890231G	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 160 uH, 0.36 A, 0.660 ohm, SMD	SMD, 2+Leads, Body Is Bot Lines
19	L2_A, L2_B, L2_C, L2_D, L2_E, L2_F, L3_A, L3_B, L3_C, L3_D, L3_E, L3_F, L4_A, L4_B, L4_C, L4_D, L4_E, L4_F, L5_A, L5_B, L5_C, L5_D, L5_E, L5_F, L6_A, L6_B, L6_C, L6_D, L6_E, L6_F, L7_A, L7_B, L7_C, L7_D, L7_E, L7_F, L8_A, L8_B, L8_C, L8_D, L8_E, L8_F, L9_A, L9_B, L9_C, L9_D, L9_E, L9_F	48	600 ohm	BLM21BD601SN1D	TDK	Ferrite Bead, 600 ohm @ 100 MHz, 1 A, 0603	0603
20	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.660" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
21	Q1_A, Q1_B, Q1_C, Q1_D, Q1_E, Q1_F, Q2_A, Q2_B, Q2_C, Q2_D, Q2_E, Q2_F, Q3_A, Q3_B, Q3_C, Q3_D, Q3_E, Q3_F, Q4_A, Q4_B, Q4_C, Q4_D, Q4_E, Q4_F, Q5_A, Q5_B, Q5_C, Q5_D, Q5_E, Q5_F, Q6_A, Q6_B, Q6_C, Q6_D, Q6_E, Q6_F, Q7_A, Q7_B, Q7_C, Q7_D, Q7_E, Q7_F, Q8_A, Q8_B, Q8_C, Q8_D, Q8_E, Q8_F	48	100V	CSD19535KTTA	Texas Instruments	MOSFET, N-CH, 100 V, 5 A, DNH0038A (VSONP-8)	DNH0038A
22	R1	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
23	R2	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	R3, R8, R10, R23, R29	5	10.0k	CRCW0402100KFKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R4	1	1.00k	CRCW0402100KFKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
26	R5	1	0.00	CRCW0402000ZPEED	Vishay-Dale	RES, 0.00 Ω, 0%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
27	R6	1	0.00	CRCW0402000ZPEED	Vishay-Dale	RES, 0.00 Ω, 0%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	R7	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
29	R9, R11, R12, R31, R32	5	4.7k	CRCW0402470KFKED	Vishay-Dale	RES, 4.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R13_A, R13_C, R13_B, R14_A, R14_B, R14_C, R15_A, R15_B, R15_C, R16_A, R16_B, R16_C, R30_A, R30_B, R30_C	16	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
31	R15_A, R15_B, R15_C, R15_D, R15_E, R15_F, R17_A, R17_B, R17_C, R17_D, R17_E, R17_F, R20_A, R20_B, R20_C, R20_D, R20_E, R20_F, R21_A, R21_B, R21_C, R21_D, R21_E, R21_F, R22_A, R22_B, R22_C, R22_D, R22_E, R22_F, R23_A, R23_B, R23_C, R23_D, R23_E, R23_F, R25_A, R25_B, R25_C, R25_D, R25_E, R25_F, R26_A, R26_B, R26_C, R26_D, R26_E, R26_F, R30_A, R30_B, R30_C, R30_D, R30_E, R30_F	48	1/2	RL1220S-R20-F	Susumu Co Ltd	RES, 0.2, 1%, 0.333 W, 0805	0805
32	SH-J1	1	1x2	SPC20V7AN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
33	TP1	1	VPWR	5010	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
34	TP2	1	PSIL_3.3V	5010	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
35	TP3, TP4, TP14, TP18	4	GND	5011	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
36	TP5	1	RESET	5013	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
37	TP6	1	DRX	5013	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
38	TP7	1	DIO	5013	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
39	TP8	1	SCL	5013	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
40	TP9	1	SDA	5013	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
41	TP10	1	3.3V_SIO	5010	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
42	TP11	1	PSIL_RST	5012	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
43	TP12	1	PSIL_CSX	5012	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
44	TP13	1	PSIL_INT	5012	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
45	TP15	1	GND_SIO	5011	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
46	TP16	1	PSIL_SDA	5012	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
47	TP17	1	PSIL_SCL	5012	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
48	U1	1		LM60-N8NXNDP8	Texas Instruments	2.7-100V Wide Vin, 600mA Constant On-Time Synchronous Buck Regulator, ODAN0008B (SOIC-8)	ODAN0008B
49	U2	1		SN74TS5FDBQ	Texas Instruments	High Speed, Robust 8-MC, Triple-Channel Digital Isolators, DBQS016A (SSOP-16)	DBQS016A
50	U3	1		ISO1541DR	Texas Instruments	2.5 kVrms Isolated Unidirectional Clock, Bidirectional I2C Isolators, D0008B (SOIC-8)	D0008B
51	U4_A, U4_B, U4_C, U4_D, U4_E, U4_F	6		TPS23881RTQ	Texas Instruments	Industrial, 8-Channel, Power-over-Ethernet PSE With 30Bit/IO Interface, RTQ0056B (VQFN-56)	RTQ0056B
52	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
53	R13_B, R13_D, R13_F, R14_C, R14_D, R16_E, R16_F	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
54	R18_A, R18_B, R18_C, R18_D, R18_E, R18_F, R18_A, R18_B, R18_C, R18_D, R18_E, R18_F, R19_A, R19_B, R19_C, R19_D, R19_E, R19_F, R24_A, R24_B, R24_C, R24_D, R24_E, R24_F, R27_A, R27_B, R27_C, R27_D, R27_E, R27_F, R28_A, R28_B, R28_C, R28_D, R28_E, R28_F	0	0.51	CRM0805-FX-R510ELF	Bourns	RES, 0.51, 1%, 0.25 W, 0805	0805