Variant: 001
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ISE4022 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		ISE4022	Any	Printed Circuit Board	
2	C1	1	1000pF	C1210C102KGRACTU	Kemet	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1210	1210
3	C2	1	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01uF, 50V, +/-10%, C0G/NP0, 0402	0402
4	C3	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, 0603	0603
5	C4	1	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0603	0603
6	C5, C8	2	18pF	GRM1885C2A180JA01D	MuRata	CAP, CERM, 18pF, 100V, +/-5%, C0G/NP0, 0603	0603
7	C6, C7	2	10pF	500R07S100JV4T	Johanson Technology	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
8	C9, C13	2	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 µF, 16 V, +/- 10%, X7R, 0402	0402
9	C10	1	0.47uF	C0603C474K8RACTU	Kemet	CAP, CERM, 0.47uF, 10V, +/-10%, X7R, 0603	0603
10	C11	1	2200pF	C1005X7R1H222K	TDK	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
11	C12	1	4.7uF	GRM21BR71A475KA73L	MuRata	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X7R, 0805	0805
12	C14, C17, C21, C34	4	10uF	C1608X5R1A106M	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
13	C15	1	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
14	C16, C35	2	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
15	C18, C22, C24, C26	4	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603	0603
16	C19, C27, C29, C38, C39	5	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
17	C25, C31	2	100pF	06035A101FAT2A	AVX Corporation	CAP CER 100PF 50V 1% NP0 0603	0603
18	C28, C30	2	120pF	GRM1885C2A121JA01D	MuRata	CAP, CERM, 120 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
19	C32	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
20	C36	1	3.3uF	C1005X5R1A335K050BC	TDK	CAP, CERM, 3.3 µF, 10 V, +/- 10%, X5R, 0402	0402
21	C37	1	0.1uF	C3216X7R2E104K	TDK	CAP, CERM, 0.1uF, 250V, +/-10%, X7R, 1206	1206
22	D1	1	6V	SMBJ6.0CA	Littelfuse	Diode, TVS, Bi, 6 V, 600 W, SMB	SMB
23	D2	1	Orange	SML-P12DTT86	Rohm	LED, Orange, SMD	Orange LED
24	J1	1		651-305-142-821	Wurth Elektronik eiSos	MINI USB 2.0 SMT TYPE AB 5 CONTACTS R/A, SMD	9.2x9.9x4 mm
25	J2	1		LPPB061NFSC-RC	Sullins Connector Solutions	Receptacle, 1.27mm, 6x1, Gold, SMT	Receptacle, 1.27mm, 6x1, SMT
26	L1, L3, L4	3	330 ohm	BLM18SG331TN1D	MuRata	1.5A Ferrite Bead, 330 ohm @ 100MHz, SMD	0603
27	L2	1		SRF2012-300Y	Bourns	Inductor, Wirewound, Ferrite, , 0.45 A, 0.2 ohm, SMD	SMD, 2.05x1.25mm
28	L5	1	3.3uH	NLCV32T-3R3M-PFR	TDK	Inductor, Wirewound, Ferrite, 3.3uH, 1A, 0.16 ohm, SMD	3.2x2.2x2.5mm
29	L6, L7	2	1000 ohm	74279266	Wurth Elektronik eiSos	Ferrite Bead, 1000 ohm @ 100 MHz, 0.2 A, 0603	0603
30	R1	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
31	R2, R5, R8, R15, R18	5	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
32	R6, R7	2	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99k ohm, 1%, 0.063W, 0402	0402
33	R9, R12	2	27.4	CRCW040227R4FKED	Vishay-Dale	RES, 27.4, 1%, 0.063 W, 0402	0402
34	R10	1	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	0402
35	R11	1	1.40k	CRCW04021K40FKED	Vishay-Dale	RES, 1.40 k, 1%, 0.063 W, 0402	0402
36	R13	1	1M	RC0402JR-071ML	Yageo	RES,1M ohm, 5%, 0.063W, 0402	0402
37	R14	1	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5 k, 1%, 0.063 W, 0402	0402
38	R19	1	768k	CRCW0402768KFKED	Vishay-Dale	RES, 768k ohm, 1%, 0.063W, 0402	0402
39	R20	1	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, 0402	0402
40	R21	1	13k	CRCW040213K0JNED	Vishay-Dale	RES, 13k ohm, 5%, 0.063W, 0402	0402
41	S1	1		B3U-1000P	Omron Electronic Components	SWITCH TACTILE SPST-NO 0.05A 12V	3x1.6x2.5mm
42	U1	1		LP5907MFX-3.3/NOPB	Texas Instruments	ULTRA LOW-NOISE, 250-mA LINEAR REGULATOR FOR RF AND ANALOG CIRCUITS REQUIRES NO BYPASS CAPACITOR, DBV0005A	DBV0005A
43	U2	1		TPD2E2U06DRL	Texas Instruments	DUAL CHANNEL HIGH SPEED ESD PROTECTION DEVICE, DRL0005A	DRL0005A
44	U3	1		MSP430F5528IRGC	Texas Instruments	Mixed Signal MicroController, RGC0064B	RGC0064B
45	U4, U5	2		TPD1E10B06DPYR	Texas Instruments	ESD in 0402 Package with 10 pF Capacitance and 6 V Breakdown, 1 Channel, -40 to +125 degC, 2-pin X2SON (DPY), Green (RoHS & no Sb/Br)	DPY0002A
46	U6	1		DRV2605LDGS	Texas Instruments	Haptic Driver for LRA and ERM With Built-In Library and Smart Loop Architecture, DGS0010A	DGS0010A
47	U7	1		LDC1614RGH	Texas Instruments	Multi-Channel 12/28-Bit Inductance to Digital Converter with I2C, RGH0016A	RGH0016A
48	U8	1		TS5A12301EYFP	Texas Instruments	IEC LEVEL 4 ESD-PROTECTED 0.75-O SPDT ANALOG SWITCH WITH 1.8-V COMPATIBLE INPUT LOGIC, YFP0006AAAA	YFP0006AAAA
49	U9	1		DRV2667RGPR	Texas Instruments	Piezo Haptic Driver with Boost, Digital Front End, and Internal Waveform Memory, RGP0020D	RGP0020D
50	U10	1		HDC1010YPAR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, YPA0008AGAE	YPA0008AGAE
51	Y1	1		ABM8-24.000MHZ-B2-T	Abracon Corportation	Crystal, 24.000MHz, 18pF, SMD	3.2x0.8x2.5mm
52	C20, C33	0	100uF	C3216X5R1A107M160AC	TDK	CAP, CERM, 100 µF, 10 V, +/- 20%, X5R, 1206_190	1206_190
53	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
54	R3, R4	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402

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