

ISE4035 REV E3 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		ISE4035	Any	Printed Circuit Board	
2	BT1	1		BHX1-2032-PC	Memory Protection Devices	Battery Holder for CR2032, TH	Battery Holder, TH
3	C2, C3, C5, C13, C14, C17	6	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X7R, 0402	0402
4	C4, C12	2	22uF	GRM188R60J226MEA0D	MuRata	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0603	0603
5	C8	1	100uF	C3216XSR1A107M160AC	TDK	CAP, CERM, 100 uF, 10 V, +/- 20%, X5R, 1206_190	1206_190
6	C16	1	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
7	C19, C34	2	3.6pF	GRM1555C1H3R6CA01D	MuRata	CAP, CERM, 3.6 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
8	C20, C35	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
9	C21	1	2.7pF	GRM1555C1H2R7CA01D	MuRata	CAP, CERM, 2.7 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
10	C22	1	6.2pF	GRM1555C1H6R2CA01D	MuRata	CAP, CERM, 6.2 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
11	C23	1	1uF	GRM188R70J105KA01D	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 10%, X7R, 0603	0603
12	C24	1	3pF	GRM1555C1H3R0CA01D	MuRata	CAP, CERM, 3 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
13	C26, C27	2	2200pF	C1005X7R1H222K	TDK	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	0402
14	C29, C30	2	12pF	06035A120JAT2A	AVX	CAP, CERM, 12 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
15	C31	1	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
16	C32	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	0805
17	C33	1	22uF	CL21B226MQQNNNE	Samsung	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X7R, 0805_140	0805_140
18	D1	1	5V	1SS315TPH3F	Toshiba	Diode, Schottky, 5 V, 0.03 A, SOD-323	SOD-323
19	E1	1		ANTENNA_HELICAL	N/A	PCB Antenna. There is nothing to buy or mount.	Antenna
20	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
21	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
22	J1	1		87898-0204	Molex	Header, 2.54 mm, 2x1, Gold, R/A, SMT	Header, 2.54 mm, 2x1, R/A, SMT
23	J2	1		61300211121	Würth Elektronik eiSos	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
24	J5	1		GRPB052VWVN-RC	Sullins Connector Solutions	Header, 50mil, 5x2, Gold, TH	Header, 5x2, 50mil
25	L1	1	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603_950	0603_950
26	L2	1	6.8uH	MLZ2012N6R8LT000	TDK	Inductor, Multilayer, Ferrite, 6.8 uH, 0.11 A, 0.25 ohm, SMD	0805
27	L3	1	6.8nH	LQG15HS6N8J02D	MuRata	Inductor, Multilayer, Air Core, 6.8 nH, 0.3 A, 0.24 ohm, SMD	0402 polarized
28	L4, L9	2	7.5nH	LQG15HS7N5J02D	MuRata	Inductor, Multilayer, Air Core, 7.5 nH, 0.3 A, 0.24 ohm, SMD	0402 polarized
29	L5, L6	2	6.8nH	LQW15AN6N8G00D	MuRata	Inductor, Wirewound, 6.8 nH, 0.7 A, 0.09 ohm, SMD	1x.5x.5mm
30	L7	1	3.3uH	VLF302515MT-3R3M	TDK	Inductor, Shielded, Ferrite, 3.3 uH, 1.23 A, 0.06 ohm, SMD	IND_3x1.5x3mm
31	L8	1	27nH	LQG15HS27NJ02D	MuRata	Inductor, Multilayer, Air Core, 27 nH, 0.3 A, 0.46 ohm, SMD	0402 polarized
32	L10	1	8.2nH	LQG15HS8N2J02D	MuRata	Inductor, Multilayer, Air Core, 8.2 nH, 0.3 A, 0.24 ohm, SMD	0402 polarized
33	R1, R3, R4, R8, R12, R17, R18, R19	8	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
34	R2	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
35	R5	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
36	R6	1	48.7k	CRCW040248K7FKED	Vishay-Dale	RES, 48.7 k, 1%, 0.063 W, 0402	0402
37	R7, R9, R10, R11	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
38	R15, R16	2	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5 k, 1%, 0.063 W, 0402	0402
39	S1, S2	2		B3U-1000P	Omron Electronic Components	SWITCH TACTILE SPST-NO 0.05A 12V	3x1.6x2.5mm
40	SH-J1	1	1x2	2SN-BK-G	Samtec	Shunt, 2mm, Gold plated, Black	2mm Shunt, Closed Top
41	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	8	SMT	5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
42	U1	1		TPS22860DBVR	Texas Instruments	Ultra-Low Leakage Load Switch, DBV0006A	DBV0006A
43	U2	1		TPL5111DDCR	Texas Instruments	Nano-power System Timer for Power Gating, DDC0006A	DDC0006A
44	U3	1		HDC1010YPAR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, YPA0008AGAE	YPA0008AGAE
45	U5, U6, U7, U8	4		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	U9	1		TPS61291DRV	Texas Instruments	LOW Iq BOOST CONVERTER WITH BYPASS OPERATION, DRV0006A	DRV0006A
47	U10	1		CC1310F128RGZR	Texas Instruments	Sub-1 GHz and 2.4 GHz Multi-standard RF IC Family, RGZ0048A	RGZ0048A
48	Y1	1		TSX-3225 24.0000MF20G-AC3	Epson	Crystal, 24 MHz, 9 pF, SMD	SMD, 4-Leads, Body 2.65x3.35mm, Height 0.6mm
49	Y2	1		FC-12M 32.7680KA-A3	Epson	Crystal, 32.768kHz, 12.5pF, SMD	Crystal 2.05x.6x1.2mm
50	C1, C6, C7, C15, C25, C28	0		Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
51	C9	0	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
52	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
53	J3	0		CONSMSA001-SMD-G	Linx Technologies	Jack, SMA, PCB, Gold, SMT	SMA Jack
54	J4	0		TSW-106-07-G-S	Samtec	Header, 100mil, 6x1, Gold, TH	6x1 Header
55	R13, R14	0		Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
56	R20, R21	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
57	U4	0		HDC1080DMBR	Texas Instruments	Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor, DMB0006A	DMB0006A

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