



ISA-EVM-01065 REV Rev A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		ISA-EVM-01065	Any	Printed Circuit Board	
2	C1	1	1uF	CL31B105KCHNNNE	Samsung	CAP, CERM, 1 µF, 100 V, +/- 10%, X7R, 1206	1206
3	C2	1	200pF	GRM1885C1H201JA01D	MuRata	CAP, CERM, 200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
4	C3	1	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
5	C5, C7, C8, C10	4	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
6	C6, C12, C14	3	0.015uF	GCM188R72A153KA37D	MuRata	CAP, CERM, 0.015 µF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
7	C9, C15	2	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
8	C11, C13	2	100pF	C0603C101J5GACTU	Kemet	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	D1, D2, D3, D4, D6, D7, D8	7	75V	1N4448WX-TP	Micro Commercial Components	Diode, Switching, 75 V, 0.25 A, SOD-323	SOD-323
10	D5	1	40V	SMAJ40CA	Littelfuse	Diode, TVS, Bi, 40 V, 400 W, SMA	SMA
11	J1, J2, J3, J6	4		5-146278-2	TE Connectivity	Header, 100mil, 2x1, Tin, TH	Header, 2x1, 100mil, TH
12	J7	1		5-146278-3	TE Connectivity	Header, 100mil, 3x1, Tin, TH	Header, 3x1, 100mil, TH
13	J8	1		282834-4	TE Connectivity	Terminal Block, 100mil, 4X1 TH	10.62x10x6.5 mm
14	Q1	1	60 V	MMBTA05LT1G	ON Semiconductor	Transistor, NPN, 60 V, 0.5 A, AEC-Q101, SOT-23	SOT-23
15	Q3, Q4	2	60V	CSD18541F5	Texas Instruments	MOSFET, N-CH, 60 V, A, PICOSTAR-3	YJK0003A
16	R1, R5	2	10.0Meg	CRCW080510M0FKEA	Vishay-Dale	RES, 10.0 M, 1%, 0.125 W, 0805	0805
17	R2	1	205k	CRCW0805205KFKEA	Vishay-Dale	RES, 205 k, 1%, 0.125 W, 0805	0805
18	R3	1	1.30Meg	CRCW08051M30FKEA	Vishay-Dale	RES, 1.30 M, 1%, 0.125 W, 0805	0805
19	R7, R15, R17, R18, R19, R23, R24	7	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
20	R8	1	1.24Meg	CRCW08051M24FKEA	Vishay-Dale	RES, 1.24 M, 1%, 0.125 W, 0805	0805
21	R11	1	4.32Meg	CRCW08054M32FKEA	Vishay-Dale	RES, 4.32 M, 1%, 0.125 W, 0805	0805
22	R13	1	1.27Meg	CRCW08051M27FKEA	Vishay-Dale	RES, 1.27 M, 1%, 0.125 W, 0805	0805
23	R16, R20	2	1.8Meg	CRCW08051M80JNEA	Vishay-Dale	RES, 1.8 M, 5%, 0.125 W, 0805	0805
24	U1	1		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A	DBZ0003A
25	U3	1		LMV339ID	Texas Instruments	Quad General Purpose Low-Voltage Comparators, D0014A	D0014A
26	U4	1		SN74LVC1G74DCUR	Texas Instruments	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset, DCU0008A	DCU0008A
27	U5	1		SN74LVC1G08DCKR	Texas Instruments	Single 2-Input Positive-AND Gate, DCK0005A	DCK0005A
28	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
29	H1, H2, H3, H4	0		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
30	H5, H6, H7, H8	0		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
31	SH-J1, SH-J2, SH-J3, SH-J4	0	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt