

ISBA-EVM-01064 REV Rev A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	1uF	CL31B105KCHNNNE	Samsung	CAP, CERM, 1 µF, 100 V, +/- 10%, X7R, 1206	1206
2	C2, C4	2	200pF	GRM1885C1H201JA01D	MuRata	CAP, CERM, 200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
3	C3, C5	2	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
4	C7, C8, C9, C11	4	0.1uF	GRM188R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603
5	C15	1	1000pF	GRM188R71E102KA01D	MuRata	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0603	0603
6	D1, D2, D3, D8	4	75V	1N4448WX-TP	Micro Commercial Components	Diode, Switching, 75 V, 0.25 A, SOD-323	SOD-323
7	D4	1	40V	SMAJ40CA	Littelfuse	Diode, TVS, Bi, 40 V, 400 W, SMA	SMA
8	J1, J2, J3, J4, J6	5		5-146278-2	TE Connectivity	Header, 100mil, 2x1, Tin, TH	Header, 2x1, 100mil, TH
9	J5, J7, J9	3		5-146278-3	TE Connectivity	Header, 100mil, 3x1, Tin, TH	Header, 3x1, 100mil, TH
10	J8	1		282834-4	TE Connectivity	Terminal Block, 100mil, 4X1 TH	10.62x10x6.5 mm
11	Q1	1	60 V	MMBTA05LT1G	ON Semiconductor	Transistor, NPN, 60 V, 0.5 A, AEC-Q101, SOT-23	SOT-23
12	Q2	1	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
13	Q3, Q4	2	60V	CSD18541F5	Texas Instruments	MOSFET, N-CH, 60 V, A, PICOSTAR-3	YJK0003A
14	R1, R4	2	10.0Meg	CRCW080510M0FKEA	Vishay-Dale	RES, 10.0 M, 1%, 0.125 W, 0805	0805
15	R2	1	205k	CRCW0805205KFKEA	Vishay-Dale	RES, 205 k, 1%, 0.125 W, 0805	0805
16	R3	1	3.09Meg	CRCW08053M09FKEA	Vishay-Dale	RES, 3.09 M, 1%, 0.125 W, 0805	0805
17	R6	1	33Meg	RC0805JR-0733ML	Yageo America	RES, 33 M, 5%, 0.125 W, 0805	0805
18	R7, R23	2	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
19	R8	1	3.74Meg	CRCW08053M74FKEA	Vishay-Dale	RES, 3.74 M, 1%, 0.125 W, 0805	0805
20	R9	1	806k	CRCW0805806KFKEA	Vishay-Dale	RES, 806 k, 1%, 0.125 W, 0805	0805
21	R10	1	7.50Meg	CRCW08057M50FKEA	Vishay-Dale	RES, 7.50 M, 1%, 0.125 W, 0805	0805
22	R12	1	6.49Meg	CRCW08056M49FKEA	Vishay-Dale	RES, 6.49 M, 1%, 0.125 W, 0805	0805
23	R13	1	1.30Meg	CRCW08051M30FKEA	Vishay-Dale	RES, 1.30 M, 1%, 0.125 W, 0805	0805
24	R14	1	2.80Meg	CRCW08052M80FKEA	Vishay-Dale	RES, 2.80 M, 1%, 0.125 W, 0805	0805
25	R15	1	90.9k	CRCW080590K9FKEA	Vishay-Dale	RES, 90.9 k, 1%, 0.125 W, 0805	0805
26	R16	1	665k	CRCW0805665KFKEA	Vishay-Dale	RES, 665 k, 1%, 0.125 W, 0805	0805
27	R17, R18	2	124k	CRCW0805124KFKEA	Vishay-Dale	RES, 124 k, 1%, 0.125 W, 0805	0805
28	R19	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
29	U1, U2	2		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A	DBZ0003A
30	U3	1		LP339D	Texas Instruments	Quad, Low-Power, General Purpose Differential Comparator, D0014A	D0014A
31	U4	1		SN74AUP1G74DQER	Texas Instruments	LOW-POWER SINGLE POSITIVE-EDGE-TRIGGERED D-TYPE FLIP-FLOP WITH CLEAR AND PRESET, DQE0008A	DQE0008A
32	!PCB1	0		ISBA-EVM-01064	Any	Printed Circuit Board	
33	C6	0	1uF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
34	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
35	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
36	H5, H6, H7, H8	0		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
37	SH-J1, SH-J2, SH-J3, SH-J4, SH-J6, SH-J7, SH-J8	0	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt

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