

Variant: 002  
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TID #: TIDA-060021

TIDA-060021 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-060021	Any	Printed Circuit Board	
2	C1, C5	2	4.7uF	C3216X5R1H475K085AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 1206	1206
3	C2, C6	2	1uF	CL21B105KBFNFNE	Samsung	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
4	C3, C7	2	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
5	C4	1	0.01uF	CGA3E2X7R2A103K080AA	TDK	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
6	C8, R7, R11, R12, R14, R16	6	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
7	C9	1	10pF	06035A100JAT2A	AVX	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
8	C13	1	750pF	GRM1885C1H751JA01D	MuRata	CAP, CERM, 750 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	J1, J2, J3, J4	4		142-0701-801	Cinch Connectivity	Connector, End launch SMA, 50 ohm, SMT	End Launch SMA
10	L1, L2	2	220 ohm	BLM21PG221SN1D	MuRata	Ferrite Bead, 220 ohm @ 100 MHz, 2 A, 0805	0805
11	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
12	R1	1	2.32k	RC0603FR-072K32L	Yageo	RES, 2.32 k, 1%, 0.1 W, 0603	0603
13	R6	1	46.4	RC0603FR-0746R4L	Yageo	RES, 46.4, 1%, 0.1 W, 0603	0603
14	R8	1	61.9	CRCW060361R9FKEA	Vishay-Dale	RES, 61.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
15	R9, R15	2	49.9	ERJ-3EKF49R9V	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
16	TP1	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
17	TP2	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
18	TP3	1		5004	Keystone	Test Point, Miniature, Yellow, TH	Yellow Miniature Testpoint
19	U1	1		OPA2810IDGKR	Texas Instruments	High Performance Low Cost Rail-to-Rail Input/Output HV FET Op Amps, DGK0008A (VSSOP-8)	DGK0008A
20	C10, C11	0	2pF	C0603C209C5GACTU	Kemet	CAP, CERM, 2 pF, 50 V, +/- 12.5%, C0G/NP0, 0603	0603
21	C12	0	270pF	GRM1885C1H271JA01D	MuRata	CAP, CERM, 270 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
22	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
23	R2	0	8.25k	RC0603FR-078K25L	Yageo	RES, 8.25 k, 1%, 0.1 W, 0603	0603
24	R3	0	412	RC0603FR-07412RL	Yageo	RES, 412, 1%, 0.1 W, 0603	0603
25	R4, R13	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R5	0	576	RC0603FR-07576RL	Yageo	RES, 576, 1%, 0.1 W, 0603	0603
27	R10	0	51.1	RC0603FR-0751R1L	Yageo	RES, 51.1, 1%, 0.1 W, 0603	0603