

Variant: 001  
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TID #: TIDA050042

TIDA050042 REV A1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC1	1		TIDA050042	Any	Printed Circuit Board	
2	C1, C3	2	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
3	C2, C4	2	10uF	CGA6P3X7S1H106K250AB	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
4	C5, C7	2	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
5	D1, D2	2	40V	B340LA-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
6	D3	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
7	J1	1		TSW-105-07-G-S	Samtec	Header, 100mil, 5x1, Gold, TH	5x1 Header
8	J2, J3	2		HTSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 100mil, 2x1, TH
9	L1	1	4.7uH	7440650047	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 4.7 uH, 4.2 A, 0.02 ohm, SMD	WE-TPC-XLH2
10	R1, R14	2	10.0k	RT0603DRE0710KL	Yageo America	RES, 10.0 k, 0.5%, 0.1 W, 0603	0603
11	R2, R6, R8, R9	4	1.00k	RT0603DRE071KL	Yageo America	RES, 1.00 k, 0.5%, 0.1 W, 0603	0603
12	R3	1	49.9	ERJ-3EKF49R9V	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
13	R4, R5	2	0.1	CSR1206FKR100	Stackpole Electronics Inc	RES, 0.1, 1%, 0.5 W, 1206	1206
14	R7	1	9.10k	RG1608P-912-B-T5	Susumu Co Ltd	RES, 9.10 k, 0.1%, 0.1 W, 0603	0603
15	R10	1	340k	RC0603FR-07340KL	Yageo	RES, 340 k, 1%, 0.1 W, 0603	0603
16	R11	1	1.00Meg	MCT06030C1004FP500	Vishay/Beyschlag	RES, 1.00 M, 1%, 0.125 W, 0603	0603
17	R12	1	294k	CRCW0603294KFKEA	Vishay-Dale	RES, 294 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
18	R13	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
19	TP1	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
20	U1	1		TVS3300DRVR	Texas Instruments	33-V Precision Surge Protection Clamp, DRV0006A (WSON-6)	DRV0006A
21	U2	1		TPS92200D1DDCR	Texas Instruments	4 V to 30-V Input Voltage, 1.5 A Output Current, Synchronous Buck LED Driver With Flexible Dimming Options, DDC0006A (SOT-23-THN-6)	DDC0006A
22	U3	1		TLV9002IDDFR	Texas Instruments	TLV9002IDDFR, DDF0008A (SOT-23-THN-8)	DDF0008A
23	U4	1		TLV7021DCKR	Texas Instruments	Small-Size Micropower Low-Voltage Comparator, DCK0005A (SOT-SC70-5)	DCK0005A
24	U5	1		TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
25	C6, C8	0	0.068uF	CGA3E2X7R1H683K080AA	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603