

Variant: 001
Generated: 4/24/2019 3:14:15 PM
TID #: TIDA-050028



TIDA-050028 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-050028	Any	Printed Circuit Board	
2	C1, C2, C3, C12, C13, C17, C25	7	0.1uF	GRM033R60J104KE19D	MuRata	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X5R, 0201	0201
3	C4	1	0.01uF	GRM033R60J103KA01D	MuRata	CAP, CERM, 0.01 uF, 6.3 V, +/- 10%, X5R, 0201	0201
4	C5, C14, C18, C24	4	100pF	GRM033R71C101KA01D	MuRata	CAP, CERM, 100 pF, 16 V, +/- 10%, X7R, 0201	0201
5	C6, C15, C21, C28	4	4.7uF	GRM035R60J475ME15D	MuRata	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0201	0201
6	C7, C16, C22, C26	4	22uF	GRM155R60J226ME11D	MuRata	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0402	0402
7	C8, C9, C27	3	1000pF	GRM033R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0201	0201
8	C10, C11	2	1uF	CL03A105MP3NSNC	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0201	0201
9	C19, C20	2	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	0603
10	C23	1	680pF	GRM033R71E681KA01D	MuRata	CAP, CERM, 680 pF, 25 V, +/- 10%, X7R, 0201	0201
11	D1, D2, D3, D4	4	Blue	LB Q39G-L2N2-35-1	OSRAM	LED, Blue, SMD	BLUE 0603 LED
12	L1, L2, L4, L5	4	470nH	DFE201610E-R47M=P2	MuRata	Inductor, Shielded, Metal Composite, 470 nH, 3.6 A, 0.032 ohm, SMD	1.6x2mm
13	L3	1	2.2uH	DFE322512F-2R2M=P2	MuRata	Inductor, Shielded, Metal Composite, 2.2 uH, 2.6 A, 0.066 ohm, SMD	Inductor, 3.2x2.5mm, SMT
14	R1, R2, R4, R6, R7, R11, R12, R13, R17, R18, R20, R22, R23, R25	14	100k	RC0201JR-07100KL	Yageo America	RES, 100 k, 5%, 0.05 W, 0201	0201
15	R3	1	536	RC0201FR-07536RL	Yageo America	RES, 536, 1%, 0.05 W, 0201	0201
16	R5	1	90.9k	RC0201FR-0790K9L	Yageo America	RES, 90.9 k, 1%, 0.05 W, 0201	0201
17	R8	1	150k	RC0201FR-07150KL	Yageo America	RES, 150 k, 1%, 0.05 W, 0201	0201
18	R9, R10, R14, R15	4	100	RC0201JR-07100RL	Yageo America	RES, 100, 5%, 0.05 W, 0201	0201
19	R16	1	910k	RC0201JR-07910KL	Yageo America	RES, 910 k, 5%, 0.05 W, 0201	0201
20	R19	1	1.00Meg	RC0201FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.05 W, 0201	0201
21	R21	1	61.9k	RC0201FR-0761K9L	Yageo America	RES, 61.9 k, 1%, 0.05 W, 0201	0201
22	R24	1	365k	RC0201FR-07365KL	Yageo America	RES, 365 k, 1%, 0.05 W, 0201	0201
23	U1	1		TPS259521DSGR	Texas Instruments	12V eFuse with Over Voltage Protection, DSG0008A (WSON-8)	DSG0008A
24	U2	1		TLV74333PDQNR	Texas Instruments	Low-Dropout Regulator, DQN0004A (X2SON-4)	DQN0004A
25	U3, U6, U8	3		TPS62821DLCR	Texas Instruments	1A Step-Down Converter With 1% Accuracy, DLC0008A (VSON-HR-8)	DLC0008A
26	U4	1		TPS22976DPUR	Texas Instruments	5.5V, 6A, 14mΩ, Dual Load Switch with Adj. Rise Time & Optional QOD, DPU0014A (WSON-14)	DPU0014A
27	U5	1		TLV74318PDQNR	Texas Instruments	Low-Dropout Regulator, DQN0004A (X2SON-4)	DQN0004A
28	U7	1		TPS61372YKBT	Texas Instruments	16-V, 3.6-A Synchronous Boost with Short Protection and Load Disconnect, YKB0016AEAG (DSBGA-16)	YKB0016AEAG
29	U9	1		TPS62822DLCR	Texas Instruments	2A Step-Down Converter With 1% Accuracy, DLC0008A (VSON-HR-8)	DLC0008A
30	U10	1		TPS22975DSGR	Texas Instruments	5.7V, 6A, 16mΩ Load Switch with Adjustable Rise Time & Optional QOD for Cost-Conscious Applications, DSG0008A (WSON-8)	DSG0008A
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A