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TIDA-010021 REV E1 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-010021	Any	Printed Circuit Board	
2	C1, C3, C6, C11, C13	5	0.1uF	885012205037	Würth Elektronik	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
3	C2, C4, C7	3	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
4	C8	1	1000pF	885012205044	Würth Elektronik	CAP, CERM, 1000 pF, 25 V, +/- 10%, X7R, 0402	0402
5	C12, C14, C26	3	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	0402
6	C27	1	100pF	885012205055	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
7	D1	1	Red	LTD-6910HR	Lite-On	LED, Red, TH	25x19.05mm
8	D6, D7, D8, D9, D10, D11, D12, D13	8	Red	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
9	J1	1		ZX62R-B-5P	Hirose Electric Co. Ltd.	Connector, Receptacle, Micro-USB Type B, SMT	Connector USB Mini B
10	J2, J3	2		GRP041VWVN-RC	Sullins Connector Solutions	Header, 50mil, 4x1, Gold, TH	TH, Header, 1.27 mm, 4x1, Straight
11	J4	1		FTS-107-01-F-S	Samtec	Header, 1.27mm, 7x1, Gold, TH	Header, 1.27 mm, 7x1, TH
12	L2, L5	2		MMZ1005S182ET000	TDK	Inductor, Ferrite Bead, Ferrite, 0.2 A, 2.1 ohm, SMD	1x0.5mm
13	Q1, Q2, Q3	3	50 V	RN2314	Toshiba	Transistor, PNP, 50 V, 0.1 A, SOT-323	SOT-323
14	R1, R8	2	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
15	R4	1	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
16	R9	1	470	RC0402FR-07470RL	Yageo America	RES, 470, 1%, 0.063 W, 0402	0402
17	U1	1		TLV70233DBVR	Texas Instruments	Single Output LDO, 300 mA, Fixed 3.3 V Output, 2 to 5.5 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
18	U2	1		MSP430FR2433IRGER	Texas Instruments	MSP430FR2433 16 MHz Ultra-Low-Power Microcontroller with 16 KB FRAM, 4 KB RAM, 19 IO, 4 Timers, RGE0024H (VQFN-24)	RGE0024H
19	U3	1		TPD2E001DRLR	Texas Instruments	Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	DRL0005A
20	U5	1		TLC59283DBQ	Texas Instruments	16-Channel Constant Current LED Driver with 4-Channel Grouped Delay, 3 to 5.5 V, -40 to 85 degC, 24-pin SOP (DBQ24), Green (RoHS & no Sb/Br)	DBQ0024A