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TIDA-01465

TIDA-01465 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C31	2	10uF	C1608X5R1A106M	TDK	CAP, CERM, 10uF, 10V, +/-20%, X5R, 0603	0603
C2, C9, C30, C32, C33, C34	6	0.1uF	GRM155R71C104JA88D	Murata Electronics North Ame	CAP CER 0.1UF 16V 5% X7R 0402	0402
C3	1	2.2uF	C0603C225K8PACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	0603
C4, C5	2	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0603	0603
C6	1	0.01uF	C1005X7R1C103K	TDK	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
C7, C10, C15, C17	4	39pF	06035A390JAT2A	AVX	CAP, CERM, 39 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C8	1	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22uF, 16V, +/-10%, X5R, 0805	0805
C11, C12, C13, C14, C16, C18, C19, C20, C21, C23, C35, C36, C37, C38, C39, C41, C42, C44	18	18pF	GRM1885C2A180JA01D	MuRata	CAP, CERM, 18pF, 100V, +/-5%, C0G/NP0, 0603	0603
C25	1	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
C26, C28	2	0.22uF	08053C224JAT2A	AVX	CAP, CERM, 0.22 µF, 25 V, +/- 5%, X7R, 0805	0805
C27	1	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603
C29	1	220PF	C1005C0G1H221F050BA	TDK Corporation	CAP CER 220PF 50V 1% NP0 0402	0402
D1	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6V, 500mW, SOD-123	SOD-123
D2, D4, D7	3	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
D3, D5, D6	3	Red	SML-LX0603SRW-TR	Lumex	LED, Super Red, SMD	LED, 1.6x.6x.8mm
D8	1	Yellow	19-21UYC/S530-A4/TR8	Everlight	LED, Yellow, SMD	0.8x1.6mm
GND1, GND2, GND3	3	SMT	5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
J1	1		ZX62R-B-5P(30)	Hirose Electric Co. Ltd.	Connector, Receptacle, Micro-USB Type B, SMT	Connector USB Mini B
J2	1		61300411121	Wurth Elektronik	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54mm, 4x1, TH
J3	1		TSW-107-07-G-D	Samtec	Header, 100mil, 7x2, Gold, TH	7x2 Header
J4, J5, J6, J7	4	2x1	1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
J8, J9, J10	3		TSW-102-07-G-S	Samtec, Inc.	Header, TH, 100mil, 2x1, Gold plated, 230 mil above insulator	TSW-102-07-G-S
L10	1	10uH	VLS201610ET-100M	TDK	Inductor, Shielded, Ferrite, 10 µH, 0.4 A, 1.38 ohm, SMD	2.0x0.95x1.6mm
R1, R2, R3, R4, R5, R21, R25	7	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
R6	1	1.5K	CRCW04021K50JNED	Vishay Dale	RES 1.5K OHM 1/16W 5% 0402 SMD	0402
R7, R17	2	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33 ohm, 5%, 0.1W, 0603	0603
R8, R9	2	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
R10, R16, R18	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
R12, R13	2	4.70k	RC0603FR-074K7L	Yageo America	RES, 4.70k ohm, 1%, 0.1W, 0603	0603
R15	1	1M	RC0402JR-071ML	Yageo	RES,1M ohm, 5%, 0.063W, 0402	0402
R19, R20, R23, R24, R26, R27, R28, R33	8	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.125W, 0805	0805

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R29	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33k ohm, 5%, 0.063W, 0402	0402
U1	1		FDC2214RGHR	Texas Instruments	Noise-immune Capacitive Sensing Solution for Proximity Sensing, RGH0016A (WQFN-16)	RGH0016A
U2	1		LP2985AIM5-3.3/NOPB	Texas Instruments	Micropower 150 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23, Pb-Free	MF05A
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
U4	1		TPL0401A-10DCKR	Texas Instruments	128 TAPS Single Channel Digital Potentiometer with I2C Interface, DCK0006A (SOT-6)	DCK0006A
U5	1		MSP430F5528IRGCR	Texas Instruments	Mixed Signal MicroController, RGC0064B	RGC0064B
Y1	1		ABM8-24.000MHZ-B2-T	Abracon Corportation	Crystal, 24.000MHz, 18pF, SMD	3.2x0.8x2.5mm
Y2	1		625L3C040M00000	CTS Electrocomponents	OSC, 40 MHz, 3.3 V, SMD	2.5x1x2.5mm

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