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TID #: TIDA-01335

TIDA-01335 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C3	2	1800pF	GRM155R72A182KA01D	MuRata	CAP, CERM, 1800 pF, 100 V, +/- 10%, X7R, 0402	0402
2	C2	1	0.018uF	C0603C183K1RACTU	Kemet	CAP, CERM, 0.018 uF, 100 V, +/- 10%, X7R, 0603	0603
3	C4, C5	2	0.22uF	GRM155R60J224KE01D	MuRata	CAP, CERM, 0.22 uF, 6.3 V, +/- 10%, X5R, 0402	0402
4	C6, C8	2	2700pF	GRM155R72A272KA01D	MuRata	CAP, CERM, 2700 pF, 100 V, +/- 10%, X7R, 0402	0402
5	C7	1	0.027uF	C0603C273K1RACTU	Kemet	CAP, CERM, 0.027 uF, 100 V, +/- 10%, X7R, 0603	0603
6	C9	1	2.2uF	GRM155B31A225ME95	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 20%, B, 0402	0402
7	C10	1	1uF	CGA4J3X7S2A105K125AB	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0805	0805
8	C11, C13	2	150pF	GRM1555C1H151JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
9	C15	1	0.47uF	GRM155R60J474KE19D	MuRata	CAP, CERM, 0.47 uF, 6.3 V, +/- 10%, X5R, 0402	0402
10	C16, C17	2	0.1uF	C1005X5R0J104K	TDK	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	0402
11	C18	1	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7 uF, 6.3 V, +/- 20%, X5R, 0402	0402
12	D1, D2	2	40V	ZHCS350TA	Diodes Inc.	Diode, Schottky, 40 V, 0.35 A, SOD-523	SOD-523
13	D3	1	Yellow	LY L29K-J1K2-26-Z	OSRAM	LED, Yellow, SMD	LED, 1.3x0.65x0.8mm
14	D5	1	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
15	J2	1		09 0431 212 04	Binder-Connector	M12 Socket, 4Pos, TH	M12 Conn D12x14.3
16	J3	1		850-10-004-40-001000	Mill-Max	Header, 50mil, 4x1, Gold, R/A, SMT	Header, 50mil, R/A,SMT
17	R1, R3, R7, R11	4	4.12k	RG1608P-4121-B-T5	Susumu Co Ltd	RES, 4.12 k, 0.1%, 0.1 W, 0603	0603
18	R2	1	3.24k	PFC-W1206R-12-3241-B	TT Electronics/IRC	RES, 3.24 k, 0.1%, 0.333 W, 1206	1206
19	R5, R6, R8	3	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
20	R13, R14	2	820	CRCW0402820RJNED	Vishay-Dale	RES, 820, 5%, 0.063 W, 0402	0402
21	R15	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
22	R16	1	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
23	RT1	1	100 ohm	PTS120601B100RP100	Vishay/Beyschlag	Temperature Sensor, 100 ohm, 1%, 1206	1206
24	S2	1		SKRKAEE010	Alps	Switch, Push Button, SMD	2.9x2x3.9mm SMD
25	U1	1		ADS1220IRVA	Texas Instruments	Low-Power, Low-Noise, 24-Bit Analog-to-Digital Converter for Small Signal Sensors, RVA0016A	RVA0016A
26	U2	1		TIOL111	Texas Instruments	IO-Link Device Transceiver with Integrated Surge Protection, TIOL111 (WSON-10)	TIOL111
27	U3	1		MSP430FR5738IRGE	Texas Instruments	24 MHz Mixed Signal Microcontroller, 1024 B SRAM and 17 GPIOs, -40 to 85 degC, RGE0024G	RGE0024G
28	C14	0	2200pF	GRM155R70J222KA01D	MuRata	CAP, CERM, 2200 pF, 6.3 V, +/- 10%, X7R, 0402	0402
29	R9	0	300	RG1608P-301-B-T5	Susumu Co Ltd	RES, 300, 0.1%, 0.1 W, 0603	0603

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