

**TIDA-01329 Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB	1		HVL154	Any	Printed Circuit Board	
C1	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
C2, C3	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
D1, D2, D3, D4	4	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
D5	1	12V	DFLZ12-7	Diodes Inc.	Diode, Zener, 12 V, 1 W, PowerDI123	PowerDI123
D6, D7, D8	3	40V	DB2W40200L	Panasonic	Diode, Schottky, 40 V, 2 A, SOD-123F	SOD-123F
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J1/J3, J2/J4	2		SSQ-110-03-T-D	Samtec	Receptacle, 2.54mm, 10x2, Tin, TH	10x2 Receptacle
J7, J8	2		PPPC061LGBN-RC	Sullins Connector Solutions	Receptacle, 2.54mm, 6x1, Gold, R/A, Black, TH	Receptacle, 2.54mm, 6x1, R/A, TH
Q1	1	30V	CSD17571Q2	Texas Instruments	MOSFET, N-CH, 30 V, 7.6 A, SON 2x2mm	SON 2x2mm
R1, R3, R4, R7	4	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, 0402	0402
R5, R14	2	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	0603
R8, R11, R12, R13	4	560	CRCW0402560RJNED	Vishay-Dale	RES, 560, 5%, 0.063 W, 0402	0402
R15	1	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, 1206	1206
S1, S2	2		CAS-D20TA	Copal Electronics	Switch, Dual SPDT, 2 Pos, 0.1A, 6VDC, SMD	5.4x3.9mm
TP1, TP2, TP3, TP4	4		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Minature
U1	1		SN74HC595DR	Texas Instruments	8-Bit Shift Registers With 3-State Output Register, D0016A	D0016A
U2	1		ULN2003ADR	Texas Instruments	7-Channel Relay and Inductive Load Sink Driver, D0016A	D0016A
J0	0		TSW-108-07-G-S	Samtec	Header, 100mil, 8x1, Gold, TH	8x1 Header
J5	0		SSQ-110-03-F-S	Samtec	Receptacle, 2.54mm, 10x1, Gold, TH	Receptacle, 2.54mm, 10x1, TH
J6	0		TSW-105-07-G-S	Samtec	Header, 100mil, 5x1, Gold, TH	5x1 Header
J9	0		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
R2, R6, R9, R10	0	560	CRCW0402560RJNED	Vishay-Dale	RES, 560, 5%, 0.063 W, 0402	0402

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