

Variant: 001
 Generated: 7/17/2018 3:44:41 PM
 TID #: N/A



TIDA-050011 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		PSIL029	Any	Printed Circuit Board	
2	C1	1	10uF	C1608JB0J106K080AB	TDK	CAP, CERM, 10 µF, 6.3 V, +/- 10%, JB, 0603	0603
3	C2, C3, C5, C6, C7, C9	6	1uF	06033C105KAT2A	AVX	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
4	C4, C8	2	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
5	C10	1	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
6	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16	16	Rgb	19-337/R6GHBHC-A01/2T	Everlight	LED, RGB, SMD	1.6x1.6mm
7	J1, J2, J3	3		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
8	J6, J8	2		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
9	J7	1		TSW-103-07-G-D	Samtec	Header, 100mil, 3x2, Gold, TH	3x2 Header
10	J9, J10	2		SSQ-110-03-T-D	Samtec	Receptacle, 2.54mm, 10x2, Tin, TH	10x2 Receptacle
11	Q1, Q2	2	60V	2N7002E-T1-E3	Vishay-Siliconix	MOSFET, N-CH, 60 V, 0.24 A, SOT-23	SOT-23
12	R1, R2, R3	3	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, 0603	0603
13	R4, R5, R6, R7	4	5.10k	RG1608P-512-B-T5	Susumu Co Ltd	RES, 5.10 k, 0.1%, 0.1 W, 0603	0603
14	R8, R9, R10, R11, R12, R13, R14, R15, R16	9	10k	RC1608J103CS	Samsung Electro-Mechanics	RES, 10 k, 5%, 0.1 W, 0603	0603
15	SH1, SH2, SH3, SH4, SH5, SH6	6	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
16	TP1, TP6, TP7, TP8	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
17	TP2	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
18	TP3, TP9	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
19	U1, U2	2		LP5024RSM/LP5018RSM	Texas Instruments	24-Channel I2C Constant-Current RGB LED Driver, RSM0032B (VQFN-32)	RSM0032B
20	U3	1		OPT3001DNPR	Texas Instruments	Digital Ambient Light Sensor (ALS) with High Precision Human Eye Response, DNP0006A (USON-6)	DNP0006A
21	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
22	TP4, TP5	0		TMS-101-02-T-S	Samtec	Header, 1x1, Tin, TH	Header, 1x1, 50mil, TH

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