



TIDA-010016IOLM REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-010016IOLM	Any	Printed Circuit Board	
2	C1	1	0.1uF	C1005X5R1A104K050BA	TDK	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X5R, 0402	0402
3	C2, C5, C61, C62, C63, C64, C65, C66, C67, C68	10	10uF	CGA5L3X5R1H106M160AB	TDK	CAP, CERM, 10 µF, 50 V, +/- 20%, X5R, AEC-Q200 Grade 3, 1206	1206
4	C31, C32, C33, C34, C35, C36, C37, C38	8	1uF	CGA4J3X7S2A105K125AB	TDK	CAP, CERM, 1 µF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0805	0805
5	C41, C42, C43, C44, C45, C46, C47, C48	8	1uF	885012105012	Würth Elektronik	CAP, CERM, 1 µF, 10 V, +/- 20%, X5R, 0402	0402
6	D11, D12, D13, D14, D15, D16, D17, D18	8	75V	1N4148WT	Fairchild Semiconductor	Diode, Switching, 75 V, 0.3 A, SOD-523F	SOD-523F
7	D31, D32, D33, D34, D35, D36, D37, D38	8	Super Red	150060SS75000	Würth Elektronik	LED, Super Red, SMD	LED_0603
8	D41, D42, D43, D44, D45, D46, D47, D48	8	Green	150060VS75000	Würth Elektronik	LED, Green, SMD	LED_0603
9	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
10	J2, J4	2		QSH-030-01-L-D-A	Samtec	Receptacle, 0.5 mm, 30x2, Gold, TH	Receptacle, 0.5 mm, 30x2, TH
11	J11, J12, J13, J14, J15, J16, J17, J18	8		1412244	Phoenix Contact	M8 Socket, 4Pos, Gold, TH	M8 Socket, 4Pos, TH
12	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
13	Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18	8	60 V	PBSS4160T	NXP Semiconductor	Transistor, NPN, 60 V, 0.9 A, SOT-23	SOT-23
14	R1, R8, R9, R21, R22, R23, R24, R25, R26, R27, R28	11	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
15	R3, R10	2	768	CRCW0402768RFKED	Vishay-Dale	RES, 768, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
16	R4, R11	2	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
17	R5, R12, R71, R72, R73, R74, R75, R76, R77, R78	10	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
18	R141, R142, R143, R144, R145, R146, R147, R148	8	270	CRCW0402270RJNED	Vishay-Dale	RES, 270, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
19	TP1, TP2, TP3, TP4, TP51, TP52, TP53, TP54, TP55, TP56, TP57, TP58	12		S2751-46R	Harwin	Test Point, SMT	Test Point, SMT
20	U1	1		TLC59282RGER	Texas Instruments	16-Channel Constant Current LED Driver with 4-Channel Grouped Delay, 3 to 5.5 V, -40 to 85 degC, 24-pin QFN (RGE24), Green (RoHS & no Sb/Br)	RGE0024G
21	U2, U4	2		TPS4H160BQPWPRQ1	Texas Instruments	40-V/160-mΩ Quad Channels Smart High-Side Switch, PWP0028C (TSSOP-28)	PWP0028C
22	U31, U32, U33, U34, U35, U36, U37, U38	8		TIOL111DMWR	Texas Instruments	IO-Link Device Transceiver with Integrated Surge Protection, TIOL111 (WSON-10)	TIOL111DMWR
23	FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
24	R6, R13	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402