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TIDA-00663 REV E2 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C3	1	4.7uF	GRM319R61H475KA12	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 1206	1206
2	C4	1	1000pF	GRM1885C1H102FA01J	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
3	C5, C11, C16, C19	4	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 uF, 16 V, +/- 5%, X7R, 0603	0603
4	C6, C12, C17	3	1uF	EMK107B7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
5	C7	1	1uF	0805YD105KAT2A	AVX	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0805	0805
6	C8, C9, C10, C13	4	1000pF	C0603X102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
7	C14, C15	2	0.1uF	GRM155R61A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X5R, 0402	0402
8	D1	1		SFH 2400FA-Z	OSRAM	Silicon PIN Photodiode, SMD	2.6x2mm
9	FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
10	J1, J3, J4	3		142-0761-881	Johnson	Connector, TH, End launch SMA 50 ohm	Connector, TH, End launch SMA
11	J2	1		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
12	J7, J8	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
13	R3	1	300	ERJ-6GEYJ301V	Panasonic	RES, 300, 5%, 0.125 W, 0805	0805
14	R5	1	0	MCR10EZHU000	Rohm	RES, 0, 5%, 0.125 W, 0805	0805
15	R6	1	1.00	CRCW08051R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.125 W, 0805	0805
16	R7, R8, R9, R10	4	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
17	R11	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
18	R12	1	142k	RT0805BRD07142KL	Yageo America	RES, 142 k, 0.1%, 0.125 W, 0805	0805
19	R13	1	178k	RT0805BRD07178KL	Yageo America	RES, 178 k, 0.1%, 0.125 W, 0805	0805
20	R14	1	0.01	WSL0805R0100FEA18	Vishay-Dale	RES, 0.01, 1%, 0.25 W, 0805	0805
21	R15	1	100	TNPW1206100RBEEA	Vishay-Dale	RES, 100, 0.1%, 0.25 W, 1206	1206
22	R16, R17	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
23	R18, R19	2	50	CRCW060350R0FKEA	Vishay-Dale	RES, 50, 1%, 0.1 W, 0603	0603
24	TP1	1		5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
25	TP2	1		5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
26	TP3, TP5	2		5129	Keystone	Test Point, Multipurpose, Purple, TH	Purple Multipurpose Testpoint
27	TP4	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
28	TP6	1		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
29	U1	1		SN74LVC2G14DCKR	Texas Instruments	Dual Schmitt-Trigger Inverter, DCK0006A	DCK0006A
30	U2	1		UCC27321DR	Texas Instruments	SINGLE 9-A HIGH SPEED LOW- SIDE MOSFET DRIVER WITH ENABLE, D0008A	D0008A
31	U3, U6	2		TDC7200PWR	Texas Instruments	Time-to-Digital Converter for Water, Gas, Heat Flow Metering Applications, PW0016A	PW0014A
32	U4	1		TLV3502AIDCNR	Texas Instruments	4.5 ns Rail-to-Rail, High-Speed Comparator, DCN0008A	DCN0008A
33	U5	1		TPS22968NDPUR	Texas Instruments	Dual Channel, Ultra-Low Resistance Load Switch, DPU0014A	DPU0014A
34	U7	1		OPA857IRGTR	Texas Instruments	Ultralow-Noise, Wideband, Selectable-Feedback Resistance Transimpedance Amplifier, RGT0016A	RGT0016A
35	U8	1		TPL0202-10MRTER	Texas Instruments	256-TAPS DUAL CHANNEL DIGITAL POTENTIOMETER WITH SPI INTERFACE AND NONVOLATILE MEMORY, RTE0016D	RTE0016D
36	U9, U11	2		SN74LVC1G08QDCKRQ1	Texas Instruments	Single 2-Input Positive-AND Gate, DCK0005A	DCK0005A
37	U10	1		SPL LL90_3	OSRAM	Hybrid Pulsed Laser Diode with Integrated Driver Stage 70 W Peak Power, TH	4.9x2.4mm
38	C1	0	1000pF	12061A102FAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 1%, C0G/NP0, 1206	1206
39	C2	0	0.01uF	C1608X7R2A103M	TDK	CAP, CERM, 0.01 uF, 100 V, +/- 20%, X7R, 0603	0603
40	D2	0	Infrared	SPL PL90_3	OSRAM	LED, Infrared, TH	D4.9xH4.6mm
41	Q1	0	20V	CSD15571Q2	Texas Instruments	MOSFET, N-CH, 20 V, 10 A, SON 2x2mm	SON 2x2mm
42	R1	0	100	TNPW1206100RBEEA	Vishay-Dale	RES, 100, 0.1%, 0.25 W, 1206	1206
43	R2	0	0	MCR10EZPJ000	Rohm	RES, 0, 5%, 0.125 W, 0805	0805
44	R4	0	0.01	WSL0805R0100FEA18	Vishay-Dale	RES, 0.01, 1%, 0.25 W, 0805	0805

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