

**TIDA-01573 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		HPV006	Any	Printed Circuit Board	
C1	1	10uF	885012208069	Wurth Elektronik	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206	1206
C2, C3	2	0.01uF	C0805C103F1GACTU	Kemet	CAP, CERM, 0.01 µF, 100 V, +/- 1%, C0G/NP0, 0805	0805
C4	1	0.47uF	YFF18PW0J474M	TDK	Feedthru Capacitor, 0.47uF, 6.3V, SMD	0603
C6, C7, C8, C9	4	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C10	1	2.2uF	LWK107BJ225MV	Taiyo Yuden	CAP, CERM, 1 µF, 10 V, +/- 20%, X5R, 0306	0306
C11	1	20pF	GRM1555C1H200JA01D	MuRata	CAP, CERM, 20 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C12	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
D1	1	100V	DFLS2100-7	Diodes Inc.	Diode, Schottky, 100 V, 2 A, PowerDI123	PowerDI123
H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
J1	1		OSTVN02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block, 2.54mm, 2-pole, Brass, TH
J2	1		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
J3	1		HTSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	Header, 100mil, 2x1, TH
Q1	1	200V	EPC2019	EPC	MOSFET, N-CH, 200 V, 8.5 A, 2.766x0.68mm	2.766x0.68mm
R1, R2	2	0	ERJ-1GE0R00C	Panasonic	RES, 0, 5%, 0.05 W, 0201	0201
R5, R6, R7, R8	4	4.02	CRCW06034R02FKEA	Vishay-Dale	RES, 4.02, 1%, 0.1 W, 0603	0603
R9	1	4.99k	CR0603-FX-4991ELF	Bourns	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R10	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
TP1	1		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_ Miniature
TP2, TP5	2	Red	5005	Keystone	Test Point, Compact, Red, TH	Red Compact Testpoint
TP3, TP7	2	Black	5006	Keystone	Test Point, Compact, Black, TH	Black Compact Testpoint
U1	1		TPS70950DBVR	Texas Instruments	150-mA, 30-V, 1-uA IQ Voltage Regulators with Enable, DBV0005A (SOT-5)	DBV0005A
U2	1		XLMG1020 (alternate: LMG1020)	Texas Instruments	High Speed Gate Driver in WCSP Package, YFF	YFF0006
U3	1		SN74LVC1G08DCKR	Texas Instruments	Single 2-Input Positive-AND Gate, DCK0005A (SOT-5)	DCK0005A
C5	0	4.7uF	UUX2A4R7MCL1GS	Nichicon	CAP, AL, 4.7 µF, 100 V, +/- 20%, SMD	D8xL6.2mm
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R3	0	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R4	0	50	CRCW060350R0FKEA	Vishay-Dale	RES, 50, 1%, 0.1 W, 0603	0603

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