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TIDA-01423 REV A Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		TIDA-01423	Any	Printed Circuit Board	
2	C1	1	10uF	GRM188C80E106ME47D	MuRata	CAP, CERM, 10 µF, 2.5 V, +/- 20%, X6S, 0603	0603
3	C2, C3	2	22uF	EMK212BBJ226MG-T	Taiyo Yuden	CAP, CERM, 22 µF, 16 V, +/- 20%, X5R, 0805	0805
4	C4	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	0402
5	C5	1	68uF	TPSE686M025R0125	AVX	CAP, TA, 68 µF, 25 V, +/- 20%, 0.125 ohm, SMD	7343-43
6	D1	1	20V	MBR1020VL	Fairchild Semiconductor	Diode, Schottky, 20 V, 1 A, SOD-123F	SOD-123F
7	J1, J2	2		TSW-106-07-G-S	Samtec	Header, 100mil, 6x1, Gold, TH	6x1 Header
8	JP1, JP2	2		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
9	L1	1	1.5uH	DFE252012F-1R5M=P2	MuRata	Inductor, Shielded, Metal Composite, 1.5 µH, 2.7 A, 0.058 ohm, SMD	2.5x1.2x2mm
10	Q1	1	-60V	SI1029X-T1-GE3	Vishay-Siliconix	MOSFET, N/P-CH, -60 V, -0.19 A, SOT-563	SOT-563
11	R1	1	510k	CRCW0402510KJNED	Vishay-Dale	RES, 510 k, 5%, 0.063 W, 0402	0402
12	R2	1	31.6k	CRCW040231K6FKED	Vishay-Dale	RES, 31.6 k, 1%, 0.063 W, 0402	0402
13	R3, R4	2	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, 0402	0402
14	U1	1		TPS62136RGXR	Texas Instruments	1-MHz High Accuracy 3-V to 17-V 4A Step-Down Converters with DCS Control, RGX0011A (VQFN-HR-11)	RGX0011A
15	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
16	SH-JP1, SH-JP2	0	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt

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