

Filename: Pro52F4.tmp
 Variant: 001
 Generated: 12/15/2016 11:36:08 AM
 TID #: TIDA-01235



TIDA-01235 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-01235	Any	Printed Circuit Board	
2	C1, C3, C5, C10, C11, C12, C13, C18	8	0.1uF	CGA4J2X8R1H104M125AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 20%, X8R, AEC-Q200 Grade 0, 0805	0805
3	C2, C4	2	0.22uF	CGA3E3X8R1E224K080AB	TDK	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X8R, AEC-Q200 Grade 0, 0603	0603
4	C6, C9, C14, C17	4	0.01uF	C1608NP01H103J080AA	TDK	CAP, CERM, 0.01 µF, 50 V, +/- 5%, C0G/NP0, 0603	0603
5	C7, C15	2	1uF	CGA5L3X8R1H105K160AB	TDK	CAP, CERM, 1 µF, 50 V, +/- 10%, X8R, AEC-Q200 Grade 0, 1206	1206
6	C8, C16	2	4.7uF	C0603C475K8PACTU	Kemet	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X5R, 0603	0603
7	D1, D4, D5, D8	4	6.5V	SM4T7V6CAY	STMicroelectronics	Diode, TVS, Bi, 6.5 V, 400 W, AEC-Q101, SMA	SMA
8	D2, D3, D6, D7	4	70V	BAV199-TP	Micro Commercial Components	Diode, Switching, 70 V, 0.215 A, SOT-23	SOT-23
9	J1, J2	2		SSW-110-23-F-S	Samtec	Connector, Receptacle, 100mil, 10x1, Gold plated, TH	10x1 Receptacle
10	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"H x 0.200"W
11	Q1	1	65 V	BC856A-7-F	Diodes Inc.	Transistor, PNP, 65 V, 0.01 A, SOT-23	SOT-23
12	R1, R9, R12, R17	4	2.00Meg	ERJ-U02F2004X	Panasonic	RES, 2.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
13	R2, R3, R4	3	47	ERJ-2GEJ470X	Panasonic	RES, 47, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
14	R5, R6, R7, R8, R13, R14, R15, R16	8	499	ERA-2AEB4990X	Panasonic	RES, 499, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
15	R10	1	7.50k	ERA-2AEB752X	Panasonic	RES, 7.50 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
16	R11	1	100k	ERJ-2GEJ104X	Panasonic	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
17	TP1	1		5126	Keystone	Test Point, Multipurpose, Green, TH	Green Multipurpose Testpoint
18	U1	1		ADS1118QDGSRQ1	Texas Instruments	Low-Power, SPI-Compatible, 16-Bit Analog-to-Digital Converter With Internal Reference and Temperature Sensor, DGS0010A	DGS0010A
19	U2	1		LMT01QLPGMQ1	Texas Instruments	0.5°C Accurate 2-Pin Digital Output Temperature Sensor with Pulse Count Interface, LPG0002A (TO-92-2)	LPG0002A
20	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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