

Filename: ProA694.tmp
 Variant: 001
 Generated: 1/10/2017 4:52:53 PM
 TID #: TIDA-03040



TIDA-03040 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-03040	Any	Printed Circuit Board	
2	C1, C8, C9, C10, C11	5	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
3	C2, C5	2	1uF	CGA3E1X7R1V105K080AC	TDK	CAP, CERM, 1 µF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
4	C3, C6	2	0.1uF	GRM188R72A104KA35J	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
5	C4	1	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X7R, 0603	0603
6	C7	1	68pF	C0603C680J5GACTU	Kemet	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
7	C12	1	0.01uF	500X14W103MV4T	Johanson Technology	CAP, CERM, 0.01 µF, 50 V, +/- 20%, X7R, 0603	0603
8	D1	1	70V	BAS70H,115	NXP Semiconductor	Diode, Schottky, 70 V, 0.07 A, SOD-123F	SOD-123F
9	D2, D4	2	58.1V	SMA6T68AY	STMicroelectronics	Diode, TVS, Uni, 58.1 V, 121 Vc, AEC-Q101, SMA	SMA
10	D3	1	20V	SM4T23AY/CAY	STMicroelectronics	Diode, TVS, Bi, 20 V, 42.8 Vc, AEC-Q101, SMA	SMA
11	D5	1	7.5V	1SMA5922BT3G	ON Semiconductor	Diode, Zener, 7.5 V, 1.5 W, AEC-Q101, SMA	SMA
12	F1	1		NANOSMDC020F-2	TE Connectivity	Fuse, Resettable, 0.2 A, 24 V, SMD	1206
13	J1	1		0022284033	Molex	Header, 2.54mm, 3x1, Tin, TH	Header, 2.54mm, 3x1, TH
14	J2	1		800-10-004-10-001000	Mill-Max	Header, 100mil, 4x1, TH	Header, 4x1, 100mil, TH
15	L1	1	1000 ohm	74279266	Würth Elektronik	Ferrite Bead, 1000 ohm @ 100 MHz, 0.2 A, 0603	0603
16	R1, R4	2	1.78k	CRCW06031K78FKEA	Vishay-Dale	RES, 1.78 k, 1%, 0.1 W, 0603	0603
17	R2, R3	2	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, 0603	0603
18	SH-J1	1		60900213421	Würth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
19	U1	1		TPS70950DRVR	Texas Instruments	150-mA, 30-V, 1-uA IQ Voltage Regulators with Enable, DRV0006A (WSON-6)	DRV0006A
20	U2	1		INA240A1PW	Texas Instruments	Wide Common-Mode Range, Voltage Output, High or Low-Side Bi-Directional Zero-Drift Current Shunt Monitor, PW0008A (TSSOP-8)	PW0008A
21	U3	1		PGA400QRHHTEP	Texas Instruments	PRESSURE SENSOR SIGNAL CONDITIONER, RHH0036C (VQFN-36)	RHH0036C
22	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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