

Variant: 001
 Generated: 12/12/2019 8:23:23 PM
 TID #: TIDA-050039



TIDA-050039 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	150uF	T495D157K010ATE100	Kemet	CAP, TA, 150 uF, 10 V, +/- 10%, 0.1 ohm, SMD	7343-31
2	C2, C3	2	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603	0603
3	C4, C5, C7, C18, C19, C20, C21	7	0.1uF	0603ZC104KAT2A	AVX	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0603	0603
4	C6	1	0.1uF	C0603C104K9PAC7867	Kemet	CAP, CERM, 0.1 uF, 6.3 V, +/- 10%, X5R, 0603	0603
5	C8, C10, C15	3	1uF	GRM185R61A105KE36D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0603	0603
6	C9	1	4.7uF	CGB3B1X5R1A475K055AC	TDK	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X5R, 0603	0603
7	C11, C12	2	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
8	C16	1	0.039uF	GRM188R71H393KA61D	MuRata	CAP, CERM, 0.039 uF, 50 V, +/- 10%, X7R, 0603	0603
9	C17	1	470pF	GRM188R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
10	D1, D2, D3, D4	4	40V	RB751S40T5G	ON Semiconductor	Diode, Schottky, 40 V, 0.03 A, SOD-523	SOD-523
11	J1, J5	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
12	J2, J3, J4, J6	4		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
13	L1	1		XFL4030-202MEBC	Coilcraft	54 SERIES CBS SHIELD ASSEMBLY -	SMD2
14	Q1	1	-20V	CSD25480F3	Texas Instruments	MOSFET, P-CH, -20 V, -1.7 A, YJM0003A (PICOSTAR-3)	YJM0003A
15	R1	1	10.0	CRCW060310R0FKFA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
16	R2	1	332k	CRCW0603332KFKEA	Vishay-Dale	RES, 332 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
17	R3	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
18	R4, R9, R11	3	4.99Meg	CRCW06034M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
19	R5	1	162k	CRCW0603162KFKEA	Vishay-Dale	RES, 162 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
20	R6	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
21	R7	1	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
22	R8	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
23	R10	1	267k	CRCW0603267KFKEA	Vishay-Dale	RES, 267 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
24	R12, R18	2	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
25	R13, R20	2	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R14	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
27	R15	1	2.61Meg	CRCW06032M61FKEA	Vishay-Dale	RES, 2.61 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
28	R16	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R17	1	887k	CRCW0603887KFKEA	Vishay-Dale	RES, 887 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
30	R19	1	422k	CRCW0603422KFKEA	Vishay-Dale	RES, 422 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
31	TP1	1		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
32	U1	1		TPS61089RNR	Texas Instruments	12.6-V, 7-A Fully-Integrated Synchronous Boost Converters in 2.0-mm x 2.5-mm VQFN Package, RNR0011A (VQFN-HR-11)	RNR0011A
33	U2	1		REF3312AIDBZR	Texas Instruments	30 ppm / degC Drift, 3.9 uA, Voltage Reference, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
34	U3	1		LPV321M7/NOPB	Texas Instruments	General Purpose, Low Voltage, Low Power, Rail-to-Rail Output Operational Amplifiers, 5-pin SC-70, Pb-Free	DCK0005A
35	U4	1		TLV7042DGKR	Texas Instruments	Small Size, Nanopower, Low-Voltage Comparator, DGK0008A (VSSOP-8)	DGK0008A
36	C13	0	300pF	GRM1885C1H301JA01D	MuRata	CAP, CERM, 300 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
37	C14	0	10pF	GRM1885C2A100JA01D	MuRata	CAP, CERM, 10 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
38	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2019, Texas Instruments Incorporated