

Filename: gtg5cj5k.xlsx
 Variant: 001
 Generated: 2/28/2024 10:13 AM
 TID #: TIDA-050073



TIDA-050073 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		TIDA-050073	Any	Printed Circuit Board	
2	C1, C5, C9	3	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
3	C2	1	47uF	GRM31CR61A476KE15L	MuRata	CAP, CERM, 47 μ F, 10 V, +/- 10%, X5R, 1206	1206
4	C3, C13	2	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 μ F, 35 V, +/- 20%, X5R, 1206	1206
5	C7, C8	2	10uF	CGA5L1X7R1H106K160AC	TDK	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
6	C10	1	0.033uF	06035C333JAT2A	AVX	CAP, CERM, 0.033 μ F, 50 V, +/- 5%, X7R, 0603	603
7	C11	1	470pF	C0603C471K5RACTU	Kemet	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	603
8	C12	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 μ F, 50 V, +/- 5%, X7R, 0603	603
9	C17, C18	2	470pF	GRM1555C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
10	C19	1	2200pF	GRM155R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	402
11	D1	1	5.1V	MMSZ5231BS-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
12	FB1	1		BLM18SN220TN1D	Murata	Chip Ferrite Bead Array, 0603, 22 Ω @ 100MHz, \pm 7 Ω , 0.004 Ω , 8A	603
13	J1, J2	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
14	J3, J4	2		6.0312E+13	Würth Electronics	SMA Connector Jack, Female Socket 50Ohm Through Hole Solder	CONN SMA_PTH
15	JP1, JP2	2		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
16	JP3	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
17	L1	1	2.2uH	74437349022	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 2.2 μ H, 7.5 A, 0.0112 ohm, SMD	7.30x4.80x6.60mm
18	R1, R3, R6, R7, R10, R11	6	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	603
19	R5	1	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
20	R8, R9	2	49.9k	RC0603FR-0749K9L	Yageo	RES, 49.9 k, 1%, 0.1 W, 0603	603
21	R12	1	4.99k	RC0603FR-074K99L	Yageo	RES, 4.99 k, 1%, 0.1 W, 0603	603
22	SH-JP1, SH-JP2, SH-JP3	3	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
23	TP1, TP3, TP18	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
24	TP2, TP4, TP5, TP6	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
25	TP7, TP13, TP14, TP15, TP16, TP17	6		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
26	TP8, TP10, TP11	3		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
27	U1	1		TPS62933FDRL	Texas Instruments	3.8-V to 30-V, 3-A Synchronous Buck Converter in a SOT583 Package	SOT583
28	C4, C14, C15	0	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 μ F, 35 V, +/- 20%, X5R, 1206	1206
29	C6	0	10uF	CGA5L1X7R1H106K160AC	TDK	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
30	C16	0	2200pF	GRM155R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	402
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
32	R4	0	4.99k	RC0603FR-074K99L	Yageo	RES, 4.99 k, 1%, 0.1 W, 0603	603