

TIDA-00503 REV <Parameter Sch_Rev not found> Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-00503	Any	Printed Circuit Board	
2	C1, C4, C5, C6, C7, C16	6	10uF	CGA5L3X5R1H106K160AB	TDK	CAP, CERM, 10uF, 50V, +/-10%, X5R, 1206_190	1206_190
3	C2, C8	2	33uF	EEHZC1H330XP	Panasonic	CAP, AL, 33uF, 50V, +/-20%, 40 ohm, SMD	6.3x7.7
4	C3	1	1uF	C0603C105K8PACTU	Kemet	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0603	0603
5	C9, C15	2	47pF	C0603C470J5GACTU	Kemet	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	0603
6	C10, C11, C12, C13	4	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603
7	C14	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
8	D1	1	60V	NRVB460MFST3G	ON Semiconductor	Diode, Schottky, 60V, 4A, 6.15x1.00x5.15mm	6.15x1.00x5.15mm
9	D2	1	Red	SML-311UTT86	Rohm	LED, Red, SMD	LED, 1.6x.8x.8mm
10	H1, H3, H5, H7	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
11	H2, H4, H6, H8	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
12	J1, J4, J5, J7, J8, J11, J12, J13, J14, J26, J28, J29	12		TSW-102-07-G-S	Samtec	Header, TH, 100mil, 2x1, Gold plated, 230 mil above insulator	2x1 Header
13	J2, J3, J6, J10	4		TSW-103-07-G-S	Samtec	Header, TH, 100mil, 3x1, Gold plated, 230 mil above insulator	3x1 Header
14	J9, J19, J20, J21, J22, J23, J24, J27, J30	9		TSW-101-17-T-S	Samtec	CONN HEADER 1POS .100" SNGL TIN, TH	2.54mm Header
15	J15, J17	2		TSW-108-07-G-D	Samtec	Header, TH, 100mil, 8x2, Gold plated, 230 mil above insulator	8x2 Header
16	J16	1		TSW-110-07-G-D	Samtec	Header, TH, 100mil, 10x2, Gold plated, 230 mil above insulator	10x2 Header
17	J18	1		TSW-110-07-G-S	Samtec	Header, TH, 100mil, 10x1, Gold plated, 230 mil above insulator	10x1 Header
18	J25	1	2x1	1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
19	L1	1	22uH	PF0552.223NL	Pulse Engineering	Coupled inductor, 22uH, 2.4A, 0.07 ohm, +/-20%, SMD	PF055X
20	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
21	Q1	1	-60V	SQJ461EP	Vishay-Siliconix	MOSFET, P-CH, -60V, 30A, PowerPAK_SO-8L	PowerPAK_SO-8L
22	R1	1	0.05	CRA2512-FZ-R050ELF	Bourns	RES, 0.05 ohm, 1%, 3W, 2512	2512
23	R2	1	20k	CRCW060320K0JNEA	Vishay-Dale	RES, 20k ohm, 5%, 0.1W, 0603	0603
24	R3	1	237k	CRCW0603237KFKEA	Vishay-Dale	RES, 237 k, 1%, 0.1 W, 0603	0603
25	R4	1	24.0k	RC0603FR-0724KL	Yageo America	RES, 24.0k ohm, 1%, 0.1W, 0603	0603
26	R5	1	1.80k	RC0603FR-071K8L	Yageo America	RES, 1.80 k, 1%, 0.1 W, 0603	0603
27	R6	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
28	R7	1	82.0k	RC0603FR-0782KL	Yageo America	RES, 82.0 k, 1%, 0.1 W, 0603	0603
29	R8	1	16.0k	RC0603FR-0716KL	Yageo America	RES, 16.0 k, 1%, 0.1 W, 0603	0603
30	R9	1	12.0k	RC0603FR-0712KL	Yageo America	RES, 12.0 k, 1%, 0.1 W, 0603	0603
31	R10	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
32	R11, R14, R15, R16, R17	5	0	MCR03EZPJ000	Rohm	RES, 0 ohm, 5%, 0.1W, 0603	0603
33	R12	1	300k	RC0603FR-07300KL	Yageo America	RES, 300 k, 1%, 0.1 W, 0603	0603
34	R13	1	130k	CRCW0603130KFKEA	Vishay-Dale	RES, 130 k, 1%, 0.1 W, 0603	0603
35	R18, R20	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
36	R19	1	167k	RT0603DRE07167KL	Yageo America	RES, 167k ohm, 0.5%, 0.1W, 0603	0603
37	R21	1	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
38	R22	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.125W, 0805	0805
39	RT1	1	10.0k ohm	NCP18XH103F03RB	MuRata	Thermistor NTC, 10.0k ohm, 1%, 0603	0603
40	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5, SH-J6, SH-J7, SH-J8, SH-J9, SH-J10, SH-J11, SH-J12, SH-J13, SH-J14, SH-J15, SH-J16	16	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
41	U1	1		LP8861PWPQ1	Texas Instruments	Low-EMI, High-Performance 4-Channel LED Driver for Automotive Lighting, PWP0020B	PWP0020B
42	U2	1		TLVH431AQDBVRQ1	Texas Instruments	LOW-VOLTAGE ADJUSTABLE PRECISION SHUNT REGULATOR, DBV0005A	DBV0005A
43	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial