

Bill of Materials

TI DESIGNS

TIDA-00225

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number
1	3	C2,C3,C4	.47uF 400v(ECQ-E4474KF	CAP,MTL POLY,RADIAL,.47uF,400V	Panasonic	ECQ-E4474KF
2	1	C5	2200PF 250V	CAP,CER,SMT 0805,.01uF,250V,+/-10%,X7R	Kemet Electronics Corporation	C0805C103KARACTU
3	9	C6,C10,C11,C12,C13,C14, C15,C19,C210	0.1uF	CAP,CER,SMT 0402,.1uF,10V,+/-10%,X5R	Kemet Electronics Corporation	C0402C104K8PACTU
4	1	C7	10UF	CAP,TANT,SMT 1206,10uF,6.3V	Kemet Electronics Corporation	T491A106M006AT
5	1	C16	22uF	CAP,TANT,SMT 1311,22uF,6.3V	Kemet Electronics Corporation	T491B226K006AT
6	1	C17	150uF	CAP,TANT,SMT 2312,220uF,6.3V,10%	AVX Corporation	TAJC227K006RNJ
7	1	C18	0.1uF	CAP,CER,SMT 0603,.1uF,50V,+/-10%,X7R	AVX Corporation	06035C104KAT2A
8	1	C20	10uF	CAP,CER,SMT 1206,10uF,6.3V	Taiyo Yuden	JMK316B7106ML-T
9	1	C21	0.01uF	CAP,CER,SMT 0402,.01uF,16V,+/-10%,X7R	Kemet Electronics Corporation	C0402C103K4RAC
10	1	C22	10uF	CAP,TANT,SMT 1311,10uF,20V	AVX Corporation	TAJB106M020R
11	1	C23	100uF	CAP,TANT,SMT 2816,100uF,20V	Kemet Electronics Corporation	T491X107M020AT
12	1	C24	1uF	CAP,CER,SMT 0603,1uF,6.3V,X5R,+/-10%	Murata Electronics	GRM188R60J105KA01D
13	3	C100,C102,C108	0.1uF	CAP,CER,SMT 0805,.1uF,50V,+10/-10%,X7R	Yageo	CC0805KRX7R9BB104
14	3	C101,C103,C109	.1uF	CAP,CER,SMT 0402,.1uF,10V,+/-10%,X5R	Kemet Electronics Corporation	C0402C104K8PACTU
15	3	C264,C265,C266	0.1uF	CAP,CER,SMT 0402,.1uF,10V,+/-10%,X5R	Kemet Electronics Corporation	C0402C104K8PACTU
16	3	DS1,DS2,DS3	LED GRN	LED,SMT 1206.GREEN	LITEON	LTST-C150GKT
17	1	D1	SM6T7V5CA	TVS DIODE 6.4VWM 14.5VC SMB	ST micro	SM6T7V5CA
18	3	D2,D7,D9	BZV55	DIODE,SOD80,ZENER,5.6V	NXP Semiconductors	BZV55-C5V6,115
19	3	D6,D8,D14	DL4148-TP	DIODE,SMT,SWITCHING	Microsemi Corp.	DL4148-TP
20	2	D12,D13	Green LED	LED,SMT 0805.GREEN	LITEON	LTST-C170GKT
21	3	ISO1,ISO2,ISO3	FOD817BSD	C.SO.OPTOCOUPLER.PHOTOTRANSISTOR	Fairchild Semiconductor	FOD817BSD
22	1	L1	10uH	INDUCTOR,SMT,10uH,5.7mm SQ.,1.2A	Sumida Electric Co., Ltd	CDRH5D18NP-100NC
26	3	L12,L14,L16	15uH	INDUCTOR,SMT,15uH,3.1A	Coiltronics Incorporated	DR1040-150-R
27	3	L13,L15,L17	600nH		TDK	VLCF5020T-2R2N2R6-3
28	2	P1,P2	HEADER 23x2	Connector	Major League	TSHC-123-D-06-240-GT-LF
30	1	P3	SFH31-NPPB-D17-SP-BK	CONN,SMT,VERTICAL,RECEPTACLE,17X2	Sullins Electronics, Corp	SFH31-NPPB-D17-SP-BK
31	1	P4	1777574	Fixed Terminal Blocks MKDS 5N HV/5-ZB-6,35	Phenonix contact	1777574
32	2	P5,P6	HEADER 10X2	CONN,SMT,VERTICAL,HEADER,10X2,.225 HIGH	Connectors	87409-110LF
33	1	P9	DB-9-MALE	CONN,DB9,MALE,RIGHT ANGLE,.318	PI Manufacturing Corp	2100-009P
34	3	Q1,Q2,Q3	BC817-40LT1G	TRANSISTOR,SOT23,NPN,GENERAL	ON Semiconductor	BC817-40LT1G

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35	2	Q4,Q5	BSS138	TRANSISTOR,SOT23,MOSFET,N-CHANNEL,BSS1	Zetex, Inc.	BSS138TA
36	9	R268,R269,R270	100K	RES,SMT 0603,100K OHM,5%,1/16 WATT	Yageo	RC0603JR-07100KL
37	2	R3,R4	1.5K,5%	RES 1.5K OHM 1/10W 5% 0603 SMD	Yageo	RC0603JR-071K5L
38	3	R5,R6,R7	4.75K,5%	RES 4.75K OHM 1/10W .5% 0603 SMD	Yageo	RT0603DRD074K75L
39	3	R10,R259,R260		0 RES,SMT 0603,0 OHM,1/16 WATT	Panasonic	ERJ-3GEY0R00V
42	21	R42,R43,R44,R45,R46,R47,R68		0 RES,SMT 0402,0 OHM,1/16 WATT	Yageo	RC0402JR-070RL
43	2	R18,R19		0 RES,SMT 1206,0 OHM,1/4 WATT	Yageo	RC1206JR-070RL
44	1	R20		4.7 RES,SMT 0805,4.7 OHM,5%,1/10 WATT	Yageo	RC0805JR-074R7L
45	7	R48,R49,R72,R73,R74,R75,	10K	RES 10K OHM 1/10W 5% 0603 SMD	Yageo	RC0603JR-0710KL
46		R78	10K	RES 10K OHM 1/10W 5% 0603 SMD	Yageo	RC0603JR-0710KL
	2	R70,R71	2.2K	RES,SMT 0402,2.2K OHM,5%,1/16 WATT	Yageo	RC0402JR-072K2L
47	6	R76,R77,R79,R210,R214,		0 RES,SMT 0603,0 OHM,1/16 WATT	Panasonic	ERJ-3GEY0R00V
	1	R80	294K	RES,SMT 0402,294K,1%,1/16 WATT	Panasonic	ERJ-2RKF2943X
49	1	R81	200K	RES,SMT 0402,200K OHM,1%,1/16 WATT	Yageo	RC0402FR-07200KL
50	1	R82	10.2K	RES,SMT 0402,10.2K OHM,1%,1/16 WATT	Panasonic	ERJ-2RKF1022X
51	4	R83,R84,R261,R262	10K	RES,SMT 1206,0 OHM,1/4 WATT	Yageo	RC1206JR-070RL
52	1	R167		220 RES,SMT 0402,220 OHM,5%,1/16 WATT	Yageo	RC0402JR-07220RL
53	2	R168,R169		220 RES,SMT 0402,360 OHM,5%,1/16 WATT	Yageo	RC0402JR-07360RL
54	2	R170,R257	100K	RES 100K OHM 1/16W 1% 0402	Stackpole Electronics	RMCF0402FT100K
55	3	R209,R213,R217	240K	RES,SMT 0603,240K OHM,5%,1/16 WATT	Yageo	RC0603JR-07240KL
56	3	R211,R215,R222		270 RES,SMT 0603,270 OHM,5%,1/16 WATT	Panasonic	ERJ-3GEYJ271V
57	3	R212,R216,R223	1.5K 5 %	RES,SMT 0805,1.5K OHM,5%,1/10 WATT	Yageo	RC0805JR-071K5L
58	2	R256,R258		150 RES 150 OHM 1/16W 5% 0402	Stackpole Electronics	RMCF0402JT150R
59	2	R263,R264	NO-POP	RES,SMT 1206,0 OHM,1/4 WATT	Yageo	RC1206JR-070RL
61	1	T1	WURTH_750510476		WURTH	750510476
64	1	U1	CAT24C256W	IC,SO8,SERIAL EEPROM,256K-BIT	Semiconductor,	CAT24C256WI-G
65	1	U4	TRS3386ECPWR	IC,TSSOP20,RS-232 TRANSCEIVER	Texas Instruments	TRS3386ECPWR
66	1	U5	TPS61093DSK	IC,QFN10,BOOST CONVERTER,LOW INPUT	Texas Instruments	TPS61093DSKT
67	2	U23,U24	SN74LV125APWR	IC,TSSOP14,QUAD BUS BUFFER GATE,LOW	Texas Instruments	SN74LV125APWR
68	3	U39,U40,U41	SN74LVC1G57DBVR	IC,DBV6,CONFIGURABLE MULTIPLE-FUNCTION	Texas Instruments	SN74LVC1G57DBVR
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