

Bill of Materials

TI DESIGNS

TIDA-00288

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
1	10	C2, C3, C21, C22, C24, C25, C27, C28, C30, C31	0.1µF	Capacitors 0.1µF; 0201; X5R; 20%; 6.3V	Tdk Corporation	C0603X5R0J104M030BC	0201
2	16	C1, C9, C10, C11, C17, C18, C20, C23, C26, C29, C32, C34, C53, C39, C44, C49	0.1µF	Capacitors 0.1µF; 0402; X7R; 10%; 16V	Tdk Corporation	C1005X7R1C104K	0402
3	1	C6	1.0µF	Capacitors 1.0µF; 0402; X5R; 10%; 10V	Taiyo Yuden	LMK105BJ105KV-F	0402
4	6	C7, C8, C12, C13, C15, C16	10000pF	Capacitors 10000pF; 0402; X7R; 10%; 50V	Murata Electronics North America	GRM155R71H103KA88D	0402
5	5	C14, C19, C40, C41, C52	10µF	Capacitors 10µF ; 0402; X5R; 20%; 6.3V	Samsung Electro-Mechanics America, Inc	CL05A106MQ5NUNC	0402
6	2	C4, C5	18pF	Capacitors 18pF; 0402; COG (NP0); 5%; 50V	Murata Electronics North America	GRM1555C1H180JZ01D	0402
7	4	C42, C46, C47, C51	2.2µF	Capacitors 2.2µF; 0402; X5R; 20%; 6.3V	Tdk Corporation	C1005X5R0J225M	0402
8	2	C33, C38	4.7µF	Capacitors 4.7µF; 0402; X5R; 10%; 6.3V	Tdk Corporation	C1005X5R0J475K	0402
9	6	C43, C45, C48, C50, C35, C36	22µF	Capacitors 22µF; 0603; X5R; 20%; 6.3V	Tdk Corporation	C1608X5R0J226M	0603
10	21	R8, R9, R10, R11, R12, R13, R21, R23, R24, R26, R28, R16, R17, R18, R19, R35, R36, R37, R39, R42, R44	10.0K	Resistors 10.0K; 0402; 1/10W; 1%;	Panasonic - Ecg	ERJ-2RKF1002	0402
11	4	R45,R46,R47,R48	61.9K	Resistors 61.9K; 0402; 1/16W; 1%;	PANASONIC	ERJ-2RKF6192X	0402
12	1	R27	301	Resistors 301; 0402; 1/10W; 1%;	Panasonic Electronic Components	ERJ-2RKF3010X	0402
13	2	R20, R34	33.2K	Resistors 33.2K; 0402; 1/16W; 0.5%;	Panasonic Electronic Components	RR0510P-3322-D	0402
14	2	R14, R15	4.70K	Resistors 4.70K; 0402; 1/16W; 1%;	Vishay Dale	CRCW04024K70FKED	0402
15	1	R22	45.3K	Resistors 45.3K; 0402; 1/16W; 1%;	Panasonic Electronic Components	ERJ-2RKF4532X	0402
16	2	R41, R43	47.0K	Resistors 47.0K; 0402; 1/10W; 1%;	Panasonic Electronic Components	ERJ-2RKF4702X	0402
17	1	R25	8.25K	Resistors 8.25K; 0402; 0.063W; 1%; 50V	Venkel	CR0402-16W-8251FT	0402
18	1	R7	9.09K	Resistors 9.09K; 0402; 1/16W; 1%; 75V	Venkel	CR0402-16W-9091FT	0402
19	1	R6	90.9K	Resistors 90.9K; 0402; 1/16W; 1%;	Yageo Corporation	RC0402FR-0790K9L	0402
20	5	FB1, FB2, FB3, FB4, FB5	220	Filters 220; 0603; 2A; %;	Murata Electronics North America	BLM18EG221SN1D	0603
21	5	U1, U3, U4, U5, U6	TPD6E05U06RVZR	Circuit Protection TPD6E05U06RVZR; 14-UFDNFN; ; %; 14V	Texas Instruments	TPD6E05U06RVZR	14-UFDNFN
22	1	L2	2.2µH	Inductors_Coils_Chokes 2.2µH; 1008; 1.3A; 20%;	Murata Electronics North America	LQM2HPN2R2MG0L	1008
23	1	L1	6.8µH	Inductors_Coils_Chokes 6.8µH; 1210; 700mA; 20%;	Tdk Corporation	NLCV32T-6R8M-PFR	1210
24	1	D4	LED - Green Clear	Optoelectronics LED - Green Clear; 0805; 35mcd; 20%; 2V	Lite-On Inc	LTST-C170KGKT	0805
25	1	D1	MBR0520LT1G	Discrete Semiconductor Products MBR0520LT1G; SOD-123; 500mA; %; 20V	ON Semiconductor	MBR0520LT1G	SOD-123
26	1	D2	Single	Discrete Semiconductor Products Single; SMA; 1A; %; 30V	Diodes Inc	B130-13-F	SMA
27	1	U7	TPS2003CDRC	Integrated Circuits TPS2003CDRC; 10-SON; ; %;	Texas Instruments	TPS2003CDRC-	10-SON
28	2	U12, U13	TPS2546RTET	Integrated Circuits TPS2546RTET; 16-WQFN; ; %;	Texas Instruments	TPS2546RTET	16-WQFN

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29	1	U11	TPS22910AYZV	Integrated Circuits TPS22910AYZV; 4-XFBGA, DSBGA; ; %;	Texas Instruments	TPS22910AYZV	4-XFBGA, DSBGA
30	1	U2	TUSB8041RGC	Integrated Circuits TUSB8041; 64-QFN; ; %;	Texas Instruments	TUSB8041RGC	64-QFN
31	2	U9, U10	LMR10510XMF/NOPB	Integrated Circuits LMR10510XMF/NOPB; SOT-23-5; ; %;	Texas Instruments	LMR10510XMF/NOPB	SOT-23-5
32	1	Y1	24MHZ	Crystals & Oscillators 24MHZ; 5.00mm x 3.20mm; 18pF; 20%;	Cts-Frequency Controls	445C25D24M00000	5.00mm x 3.20mm
33	1	J6	Power jack R/A	Connectors Power jack R/A; ; ; %;	Cui Inc	PJ-068B-SMT	
34	4	J2,J3,J4,J5	USB 3.0 - A Type	Connectors USB 3.0 - A Type; 16.5 x 13.8 x 7.0; 85°C; %; 30V	FCI	10117835-002LF	16.5 x 13.8 x 7.0
35	1	J1	USB - microUSB Type B	Connectors USB - microUSB Type B; SMT; ; %;	Hirose Electronics Co Ltd	ZX360D-B-10P	SMT
36	11	R1, R4, R5, R29, R30, R31, R32, R33, R38, R40	DNI	DNI	N/A	N/A	0402
37	1	R3	DNI	DNI	N/A	N/A	0402

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