

Bill of Materials

TI DESIGNS

TIDM-LEDDRIVER
LED BoosterPack BOM

Item	Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	Note
1	1	L1	INDUCTOR POWER 100UH .77A SMD	Wurth Electronics Inc	74477520	
2	3	L2, L3, L4	INDUCTOR POWER 220UH .30A SMD	Bourns Inc.	SRR7032-221M	
3	8	LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	LED RGB ROUND DIFFUSED 6PLCC	TT Electronics/Optek Technology	OVSTRGBB1CR8	
4	3	R22, R23, R33	RES .10 OHM 1/2W 1% 1206 SMD	Susumu	RL1632R-R100-F	
5	1	R5	RES .02 OHM 1W 1% 2010 SMD	Stackpole Electronics Inc	CSRN2010FK20L0	
6	3	R17, R19, R38	RESISTOR 5.1 OHM 1/10W 5% 0402	Panasonic - ECG	ERJ-2GEJ5R1X	
7	1	R1	RES 10 OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ100X	
8	2	R12, R28	RES 18 OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ180X	
9	3	R16, R18, R37	RES 33 OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ330X	
10	3	R21, R24, R32	RES 39 OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ390X	
11	3	R13, R27, R36	RES 215 OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF2150X	
12	1	R9	RES 432 OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF4320X	
13	1	R4	RES 475 OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF4750X	
14	1	R8	RES 1.62K OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF1621X	
15	3	R14, R15, R30	RES 1.91K OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF1911X	
16	1	R7	RES 2.0K OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ202X	
17	4	R2, R11, R20, R31	RES 4.99K OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF4991X	
18	1	R6	RES 7.32K OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF7321X	
19	9	R10, R25, R26, R29, R34, R35, R39, R40, R41	RES 10K OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ103X	
20	2	R42, R43	RES 47.0K OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF4702X	
21	1	R3	RES 68.1K OHM 1/10W 1% 0402 SMD	Panasonic - ECG	ERJ-2RKF6812X	
22	3	C19, C20, C26	CAP CER 82PF 50V 5% NP0 0402	Taiyo Yuden	UMK105CG820JV-F	
23	1	C8	CAP CER 220PF 50V 10% X7R 0402	Taiyo Yuden	UMK105B7221KV-F	
24	2	C3, C6	CAP CER 470PF 50V 10% X7R 0402	Taiyo Yuden	UMK105B7471KV-F	
25	1	C12	CAP CER 3300PF 50V 10% X7R 0402	Murata Electronics North America	GRM155R71H332KA01D	
26	1	C7	CAP CER 4700PF 50V 10% X7R 0402	Murata Electronics North America	GRM155R71H472KA01D	
27	1	C4	CAP CER 0.047UF 25V 10% X7R 0402	Taiyo Yuden	TMK105B7473KV-F	
28	9	C2, C5, C11, C16, C18, C24, C30, C31, C32	CAP CER 0.1UF 25V 10% X5R 0402	Taiyo Yuden	TMK105BJ104KV-F	
29	2	C17, C25	CAP CER 0.22UF 6.3V 10% X5R 0402	Taiyo Yuden	JMK105BJ224KV-F	
30	3	C9, C33, C34	CAP CER 1UF 6.3V 10% X5R 0402	Taiyo Yuden	JMK105BJ105KV-F	

Item	Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	Note
31	1	C1	CAP CER 4.7UF 25V 10% X5R 1206	Taiyo Yuden	TMK316BJ475KD-T	
32	9	C13, C14, C15, C21, C22, C23, C27, C28, C29	CAP CER 10UF 35V 10% X5R 1210	Taiyo Yuden	GMK325BJ106KN-T	
33	1	C10	CAP CER 22UF 6.3V 20% X5R 1206	Taiyo Yuden	JMK316BJ226ML-T	
34	2	J2, J8	CONN HEADER 2POS VERT T/H	FCI	77311-118-02LF	
35	2	J6, J7	CONN HEADER 10POS .100 STR 30AU	FCI	68000-110HLF	
36	1	J5	CONN HEADER 6POS .100 STR TIN	FCI	68000-406HLF	
37	2	J3 & J9, J4 & J10	CONN SOCKET DUAL VERT 20POS GOLD	3M	960220-6303-AR	
38	1	J11	CONN SOCKET SGL VERT 3POS GOLD	3M	960103-6303-AR	
39	1	S1	SWITCH DIP DPST 1POS SMT	CTS Electrocomponents	204-211ST	
40	1	J1	CONN POWER JACK 2.5X5.5MM SMD	CUI Inc	PJ-002B-SMT	
41	1		12V 1A Power Adapter			
42	2	U4, U5	IC OPAMP GP R-R 38MHZ DUAL 8SOIC	Texas Instruments	OPA2350UA	
43	1	U2	IC LDO REG 3.3V 500MA SOT223-6	Texas Instruments	TPS79533DCQR	
44	2	U3, U6	IC MOSFET DRVR DUAL HS 5A 8-SOIC	Texas Instruments	UCC27524D	
45	1	U1	IC NON-SYNC DC/DC CTRLR 8-SOIC	Texas Instruments	TPS40200DRG4	
46	1	U7	IC MCU 16BIT 8KB FLASH 20TSSOP	Texas Instruments	MSP430G2452IPW20R	
47	3	Q1, Q2, Q3	MOSFET N-CH 60V 6A DPAK	Diodes/Zetex	DMN6068LK3-13	
48	1	Q4	MOSFET P-CH 20V 1A SOT-23	ON Semiconductor	NTR1P02T1G	
49	4	D1, D2, D3, D4	DIODE SCHOTTKY 60V 2A SMB	Diodes Inc	B260-13-F	

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 TIDM-LEDDRIVER
 C2000 LAUNCHPAD BOM

Item	Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	Note
1	6	R12, R13, R14, R15, R26, R27	RES 330 OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ331X	
2	4	R1, R4, R5, R17	RES 820 OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ821X	
3	2	R22, R23	RES 1.0K OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ102X	
4	5	R6, R8, R9, R10, R31	RES 2.2K OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ222X	
5	2	R11, R29	RES 10K OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ103X	
6	1	R24	RES 12K OHM 1/16W .5% 0402 SMD	Panasonic - ECG	ERA-2AED123X	
7	1	R7	RES 1.0M OHM 1/10W 5% 0402 SMD	Panasonic - ECG	ERJ-2GEJ105X	No-pop
8	9	R16, R18, R19, R20, R21, R25, R28, R30, R32	RES 0.0 OHM 1/4W 1206 SMD	Panasonic - ECG	ERJ-8GEY0R00V	
9	2	L1, L2	FERRITE BEAD 600 OHM 0402	Taiyo Yuden	BK1005HM601-T	
10	1	L3	FERRITE BEAD 220 OHM 0402	Taiyo Yuden	BKP1005HS221-T	
11	1	L4	FERRITE CHIP 60 OHM 1.5A 0402	TDK Corporation	MPZ1005S600C	
12	5	C9, C12, C13, C14, C16	CAP .10UF 16V CERAMIC Y5V 0402	Yageo	CC0402ZRY5V7BB104	
13	1	C7	CAP CER 1.0UF 6.3V X5R 20% 0402	TDK Corporation	C1005X5R0J105M	
14	5	C5, C6, C19, C20, C21	CAP CER 2.2UF 6.3V 20% X5R 0402	Taiyo Yuden	JMK105BJ225MV-F	
15	1	C15	CAP CER 3.3UF 4.0V X5R 0402	Taiyo Yuden	AMK105BJ335MV-F	
16	2	C10, C11	CAP CER 4.7UF 4V X5R 0402	Taiyo Yuden	AMK105BJ475MV-F	
17	2	C3, C4	CAP CER 36PF 50V C0G 0402	TDK Corporation	C1005C0G1H360J	No-pop
18	2	C17, C18	CAP CER 36PF 50V C0G 0402	TDK Corporation	C1005C0G1H360J	
19	1	C8	CAP TANTALUM 100UF 6.3V 10% SMD	Nichicon	F930J107KBA	
20	1	F1	PTC RESETTABLE .50A 15V 1812	Bourns Inc.	MF-MSMF050-2	
21	1	S1	SWITCH DIP 3POS TOP SLIDE SMT	CTS Electrocomponents	204-3ST	
22	1	S4	SWITCH DIP DPST 1POS SMT	CTS Electrocomponents	204-211ST	
23	2	S2, S3	SW TACT SPST-NO MOM 160GF SMD	TE Connectivity	FSM2JSMATR	
24	1	Q1, Q2	Crystal			No-pop
25	1	Q3	CRYSTAL 12.0000 MHZ 18PF SMD	Abracon Corporation	ABLS2-12.000MHZ-D4Y-T	
26	1	D6	LED RED HIGH BRIGHT ESS SMD	Panasonic - SSG	LNJ237W82RA	
27	1	D1	LED GREEN HIGH BRIGHT ESS SMD	Panasonic - SSG	LNJ337W83RA	
28	6	D2, D3, D4, D5, D7, D8	LED BLUE HIGH BRIGHT ESS SMD	Panasonic - SSG	LNJ937W8CRA	
29	3	JP1, JP2, JP3	BERGSTIK II .100" SR STRAIGHT	FCI	68001-102HLF	
30	2	J1 & J5, J2 & J6	CONN HEADER .100 DUAL STR 20POS	3M	929665-03-10-I	

Item	Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	Note
31	1	J3	CONN HEADER .100 SNGL STR 3POS	3M	929647-03-03-I	
32	1	CON1	CONN RECEPT MINI-USB TYPE B SMT	Mill-Max Manufacturing Corp.	897-43-005-00-100001	
33	1	U4	IC LDO REG 800MA 3.3V SOT223-4	Texas Instruments	TLV1117-33CDCYR	
34	2	U2, U3	IC BUFF/DVR DL NON-INV SOT236	Texas Instruments	SN74LVC2G07DBVR	
35	1	U5	ISOLAT DGTL 2.5KVRMS 4CH 16-SOIC	Texas Instruments	ISO7240CDWR	
36	1	U7	ISOLAT DGTL 3KVRMS 3CH 16-SOIC	Texas Instruments	ISO7231CDWR	
37	1	U6	IC USB HS DUAL UART/FIFO 64-QFN	FTDI, Future Technology Devices International Ltd	FT2232HQ-REEL	
38	1	U8	IC EEPROM 2KBIT 3MHZ SOT23-6	Microchip Technology	93LC56BT-I/OT	
39	1	U1	IC MCU 32BIT 64KB FLASH 48LQFP	Texas Instruments	TMS320F28027PTS	

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