

## DLP LED Driver RevB TIDA-080008

Item	Reference	Description	Value	PCB Footprint	Manufacturer	Part Number	Quantity	DNI
1	C1,C2,C3,C4,C5,C6,C8,C9,C10,C15,C16,C17	CAP CER 2.2UF 50V 10% X5R 1206	2.2uF	1210	Samsung Electro-Mechanics	CL31A225KB9LNNC	12	
2	C12,C13,C14,C501,C502,C503	CAP CER 10UF 50V X5R 1206	10uF	1206	Samsung Electro-Mechanics	CL31A106MBHNNNE	6	
3	C18,C504,C505,C506	CAP CER 4.7uF 50V 10% X7R 0805	0.47uF	805	Samsung Electro-Mechanics	CL21B474KBFNNNG	4	
4	C20,C22,C24	CAP CER 56PF 50V 1% 0603	56pF	603	Kemet	C0603C560F5GACTU	3	
5	C27,C28,C29,C35,C41,C44,C510,C511,C512	CAP CER 0.1UF 50V 5% X7R 0603	0.1uF	603	Yageo	CC0603JR7R9BB104	9	
6	C36,C39,C40	CAP CER 2.2UF 50V 10% X5R 1206	2.2uF	1206	Samsung Electro-Mechanics	CL31A225KB9LNNC	3	
7	C42	CAP ALUM POLY 150UF 35V SMD	150uF	CAPAE830X1050N	Nippon Chemi-Con	HHXC350ARA151MHA0G	1	
8	C46,C47,C50	CAP CER 680pF 50V 10% X7R 0402	680pF	402	Samsung Electro-Mechanics	CL05B681KB5NNNC	3	
9	C507,C508,C509	CAP CER 2.2UF 25V 10% X7R 0805	2.2uF	805	Samsung Electro-Mechanics	CL21B225KAFNFNE	3	
10	C513,C514,C515	CAP CER 330PF 25V 1% X8R 0603	330pF	603	Kemet	C0603C331F3HAC7867	3	
11	C7,C11,C19,C32	CAP CER 10UF 50V 10% X5R 1210	10uF	1210	Taiyo Yuden	UMK325BJ106KM-T	4	
12	D1,D2,D3	DIODE SCHOTTKY 60V 1A SMA	PAS,DIODE,SCHOTTKY,small	DO-214AC	Diodes Inc	B160-13-F	3	
13	D4,D5,D6	DIODE GEN PURP 75V 250MA SOT23-3	IN4148W	SOT-23-3	Diodes Inc	MMBD4448-7-F	3	
14	GND1,GND2,GND3	TEST POINT PC MINI .040inD BLACK	TP_BLK	KEYSTONE_TP_MINIATURE	Keystone	5001	3	
15	J1,J2,J3	CONN HEADER VERT 4POS 3.5MM	CONN_4PINS_dsize	molex_1722981104	Molex	1722981104	3	
16	J4	CONN HEADER VERT 20POS 2MM	B20B-PHDSS(LF)(SN)	JST_B20B-PHDSS	JST	B20B-PHDSS(LF)(SN)	1	
17	J5	CONN HEADER R/A 8POS 3.5MM	Molex-8 Side Conn TH 2-rows	molex_1723161108	Molex	1723161108	1	
18	J6,U7,J7,U8,U9	CONN HEADER VERT 6POS 2.54MM	HDR,6P,1R	SAMTEC_TSW-106-07-G-S	Samtec	TSW-106-07-G-S	5	
19	L1,L2,L3	Fixed Inductors 15uH 20% 13.8A 18.6mOhms AEC-Q200	15uH	IND_XAL1010	Sumida	XAL1010-153MEB	3	
20	MH1,MH2,MH3,MH4	MH147-276GND	MOUNTING_HOLE	MH147-276GND		-- NOT A PART --	0	DNI
21	Q1,Q2,Q3,Q8,Q11,Q14	MOSFET N-CH 60V 17A 8SON	NP	Surface_Mount_8-VSONP_5x6	Texas Instruments	CSD18533Q5A	0	DNI
22	Q4,Q5,Q6,Q7,Q9,Q10,Q12,Q13,Q15	MOSFET N-CH 60V 17A 8SON	CSD18533Q5A	Surface_Mount_8-VSONP_5x6	Texas Instruments	CSD18533Q5A	9	
23	R1,R5,R6,R16,R18,R20	RES 47K OHM 1/10W 1% 0603 SMD	NP	603	Yageo	RC0603FR-0747KL	0	DNI
24	R10,R11,R12,R22,R23,R24,R39,R40,R41	RES 47K OHM 1/10W 1% 0603 SMD	47K	603	Yageo	RC0603FR-0747KL	9	
25	R13,R14,R15,R25,R26,R27,R36,R37,R38	RES 10 OHM 5% 1/10W 0603	10	603	Vishay Dale	RMCF0603JG10R0	9	
26	R28,R29,R30	RES 0.02 OHM 1% 2W 2512	0.02	2512	Stackpole Electronics Inc	CSRN2512FK20L0	3	
27	R31,R32,R33	RES 49.9 OHM 2W 1% 2512 SMD	49.9	2512	Vishay Dale	RCL122549R9FKEG	3	
28	R34,R35,R42,R51,R501,R502,R503	RES 10K OHM 1/16W 1% 0402 SMD	10K	402	Vishay Dale	CRCW040210K0FKED	7	
29	R43,R44,R45	RES SMD 20K OHM 1% 1/10W 0603	20K	603	Yageo	RC0603FR-072KL	3	
30	R48,R49,R50	RES 10 OHM 1/4W 1% 1206 SMD	10	1206	Vishay Dale	CRCW120610R0FKEA	3	
31	R504,R505	RES SMD 15.4K OHM 1% 1/16W 0402	15.4K	402	Yageo	RC0402FR-0715K4L	2	
32	R506	RES 10K OHM 1% 1/16W 0402	10K	402	Yageo	RMCF0402FT10K0	1	
33	R507,R508,R509	RES 5K OHM 1/16W 1% 0402 SMD	NP	402	Yageo	NP	0	DNI
34	R52,R53,R54	RES 200K OHM 1/10W 1% 0402 SMD	200K	402	Panasonic	ERJ-2RKF2003X	3	
35	R55,R56,R57	RES 0 OHM 1/4W 1% 1206 SMD	0	1206	Vishay Dale	RCG12060000Z0EA	3	
36	R58,R62	RES 1.3K OHM 1% 1W 2512	1.3K	2512	TE Connectivity	RMCF2512FT1K30	2	
37	R59	RES 11.5K OHM 1W 1% 2512 SMD	11.5K	2512	Vishay Dale	CRCW251211K5FKEG	1	
38	R60	RES 1K OHM 1% 1W 2512	1K	2512	TE Connectivity	RMCF2512FT1K00	1	
39	R61,R63	RES 11.5K OHM 1W 1% 2512 SMD	11.5K	2512	Vishay Dale	CRCW251211K5FKEG	2	
40	R64,R65,R66	RES 28K OHM 1/5W 1% 0402 SMD	28K	402	Vishay Dale	CRCW040228K0FKEDHP	3	
41	R67,R68,R70	RES 5K OHM 1/16W 1% 0402 SMD	5K	402	Yageo	RC0402FR-075KL	3	
42	R7,R8,R9,R17,R19,R21	RES 10 OHM 5% 1/10W 0603	NP	603	Vishay Dale	RMCF0603JG10R0	0	DNI
43	TP1	PC TEST POINT MINIATURE RED	TEST POINT	HOLE_PLATED_40mil_D_60mil_PAD	Keystone	5000	1	
44	U1	IC REG LINEAR 5V 250MA SOT89	TS90115CY	SOT89	Taiwan Semiconductor	TS90115CY RMG	1	
45	U2	IC GATE AND 1CH 2-INP SOT23-5	AND2	SOT-23-5	Texas Instruments	SN74AHCT1G08DBVR	1	
46	U3,U4,U5	Synchronous Buck Controllers	TPS92641PWPNOB	PWP0016A	Texas Instruments	TPS92641	3	
47	U6	IC VIDEO SWITCH QUAD SPDT 16SSOP	TSSV330CDBQR	16-SSOP	Texas Instruments	TSSV330CDBQR	1	
48	VIN1,RED_A1,GREEN_A1,BLUE_A1	HOLE_PLATED_40mil_D_60mil_PAD	TEST POINT	HOLE_PLATED_40mil_D_60mil_PAD		-- NOT A PART --	0	DNI

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