

Bill of Materials

TI DESIGNS

TIDA-01474 P5 DMD Board

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	DNI	Notes
1	4	C1,C4,C6,C8	0.001uF	Capacitor 0.001uF 10% 50V X7R 0603AVX	AVX	06035C102KAT2A	0603		
2	4	C2,C3,C7,C9	0.1uF	Capacitor 0.1uF 10% 16V X7R 0603AVX	AVX	0603Y104KAT2A	0603		
3	0		2700pF	Capacitor 2700pF 10% 50V X7R 0402avx	Yageo	CC0402KRX7R9BB272	0402	C5,C28	
4	6	C10,C11,C12,C23,C26,C45	10 uF	Capacitor 10 uF 10% 25V X5R 1210	Murata	GRM32DR61E106KA12L	1210		
5	4	C13,C19,C20,C22	1 uF	Capacitor 1 uF 10% 25V X5R 0603AVX	AVX	06033D105KAT2A	0603		
6	1	C14	1000pF	Capacitor 1000 pF 10% 100V X7R 0805	Samsung	CL21B102KCANNNC	0805		
7	1	C15	6.2 PF	Capacitor 6.2 PF 50V NPO 0402AVX	Murata	GJM1555C1H6R2CB01D	0402		
8	1	C16	22uF	Capacitor 22uF 20% 16V X5R 1210	Taiyo Yuden	EMK325BJ226MM-T	1210		
9	5	C17,C18,C21,C24,C27	0.1uF	Capacitor 0.1uF 20% 50V X7R 0805avx	AVX	08055C104MAT2A	0805		
10	1	C25	0.22uF	Capacitor 0.22uF 10% 25V X8R 0805AVX	TDK	C2012X8R1E224K	0805		
11	69	C29,C31,C32,C33,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C46,C47,C48,C49,C50,C51,C52,C53,C54,C56,C57,C58,C59,C60,C61,C62,C63,C64,C65,C67,C68,C69,C70,C71,C72,C73,C74,C75,C76,C78,C79,C80,C81,C82,C83,C84,C85,C86,C87,C89,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C102,C103	0.1uF	Capacitor 0.1uF 10% 25V X7R 0603avx	TDK	C1608X7R1E104K	0603		
12	1	C30	100 PF	Capacitor 100 PF 50V X7R 0402AVX	AVX	04025C101KAT2A	0402		
13	4	C55,C66,C77,C88	2.2uF	Capacitor 2.2uF 20% 10V X5R 0603avx	Murata	GRM188R61A225ME34D	0603		
14	0		10 uF	Capacitor 10 uF 10% 25V X5R 1210	Murata	GRM32DR61E106KA12L	1210	C104,C105	
15	1	D1		Diode, Zener 3.3V 3.3V SC-90A	PANASONIC	DZ2J033	SC-90A		
16	1	D2		DIODE Zener 11V 5% 3W DO214AA	Microcommercial	3SMBJ5926B-TP	DO214AA		
17	1	D3		Diode Schottky STPS0540Z 40V 0.5A SOD123	STM	STPS0540Z	SOD123		
18	2	D4,D5		Diode Schottky BAT54SW 30V sot323avx	NXF	BAT54SW	SOT323		
19	2	J1,J2		Connector DMD_FLEX_CONNECTOR CN150CUSTOM_REV8-MOD-NO-MH	INTERCON SYSTEMS	CN150CUSTOM_REV8	CN150CUSTOM_REV8-MOD-NO-MH		
20	1	J3		Connector TSM-102-01-T-SV CONN_2POS_2p54MM	Samtec	TSM-102-01-T-SV	CONN_2POS_2p54MM		
21	1	J4		Connector, 4 Pin Conn_4 CONN_4	Molex	053261-0471	CONN_4		
22	4	L1,L2,L3,L4		Ferrite 220 OHM @ 100MHz 25% 2A, 50mOhm 0805avx	MURATA	BLM21PG221SN1D	0805		
23	1	L5	22 uH	Inductor 22 uH 20% 0.65 A, 0.36Ohm IND_LPS4018	COILCRAFT	LPS4018-223MRB	IND_LPS4018		
24	1	Q1		FDMA910PZ MicroFET_2x2	FAIRCHILD	FDMA910PZ	MicroFET_2x2		
25	1	Q2		Transistor, NPN 2N2222A 40V, 500mA SOT23AVXD	FAIRCHILD	MMBT2222A	SOT23AVXD		
26	1	Q3		MOSFET, N-Chan 2N7002 7.5 ohms @ 10 V, 500 mA SOT-23	ON Semiconductor	2N7002L	SOT-23		
27	0		1K	Resistor 1K 5% 1/10W 0603AVX	Panasonic	ERJ-3GEYJ102V	0603	R1	
28	6	R2,R15,R21,R41,R49,R52	10K	Resistor 10K 5% 1/10W 0603AVX	Panasonic	ERJ-3GEYJ103V	0603		
29	0		10K	Resistor 10K 5% 1/10W 0603AVX	Panasonic	ERJ-3GEYJ103V	0603	R3	
30	3	R4,R13,R28	0	Resistor 0 1/10W 0603avx	Panasonic	ERJ-3GEY0R00V	0603		
31	6	R5,R6,R9,R10,R11,R12	12	Resistor 12 5% 1/8W 0805	PANASONIC	ERJ-6GEYJ120V	0805		
32	1	R7	2.2K	Resistor 2.2K 5% 1/10W 0402	PANASONIC	ERJ-2GEJ222X	0402		
33	4	R8,R17,R29,R30	1K	Resistor 1K 5% 1/10W 0402	PANASONIC	ERJ-2GEJ102X	0402		
34	1	R14	432K	Resistor 432K 1% 1/10W 0603avx	Panasonic	ERJ-3EKF4323V	0603		
35	1	R16	2K	Resistor 2K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ202X	0402		
36	1	R18	15K	Resistor 15K 1% 1/10W 0603AVX	Yageo	RC0603FR-0715KL	0603		
37	1	R19	56.2K	Resistor 56.2K 1% 1/10W 0603AVX	Panasonic	ERJ-3EKF5622V	0603		
38	1	R20	10K	Resistor 10K 5% 1/10W 0402	Panasonic	ERJ-2GEJ103X	0402		
39	1	R22	53.6K	Resistor 53.6K 0.1% 1/10W 0603avx	Panasonic	ERA-3AEBS362V	0603		
40	1	R23	620K	Resistor 620K 0.1% 1/16W 0603avx	TE Connectivity	1-1879417-4	0603		
41	1	R24	3.3K	Resistor 3.3K 5% 1/10W 0402	Panasonic	ERJ-2GEJ332X	0402		
42	1	R25	820K	Resistor 820K 0.5% 1/10W RES0805	Susumu	RR1220P-824-D	0805		
43	1	R26	59K	Resistor 59K 0.5% 1/10W 0603avx	Yageo	RT0603DRD0759KL	0603		
44	1	R27	33K	Resistor 33K 5% 1/10W 0402	Panasonic	ERJ-2GEJ333X	0402		
45	2	R31,R32	1K	Resistor 1K 5% 1/10W 0402	Panasonic	ERJ-3GEYJ102V	0603		

46	2	R33,R34	51	Resistor 51 5% 1/10W 0402AVX	Panasonic	ERJ-2GEJ510X	0402		
47	15	R35,R36,R37,R38,R39,R40,R42,R43,R44,R45,R46,R47,R48,R50,R51	33	Resistor 33 1% 1/16W 0402AVX	Yageo	RC0402FR-0733RP	0402		
48	1	U1		IC, Voltage Regulator LP38513S-1.8/NOPB TO-263	TI	LP38513S-1.8/NOPB	TO-263		
49	4	U2,U3,U4,U5		MOSFET, N-Channel N-CHANNEL MOSFET 460MW 20V_SOT23AVX	FAIRCHILD SEMI	FDV303N	SOT23AVX		
50	1	U6		MOSFET, N-Channel P-CHANNEL MOSFET 130MA 50V_SOT23AVX	FAIRCHILD SEMI	BSS84	SOT23AVX		
51	1	U7		IC Voltage Regulator TPS65145 SOIC24-PWP_TI	TI	TPS65145PWP	SOIC24-PWP_TI		
52	1	U8		IC, DMD DLP470NE			DMD_S410_Socket		
53	1	U9		IC, Temp Sensor TMP411 MSOP-8	TI	TMP411ADGK	MSOP-8		
54	2	U10,U11		IC, Level Translator SN74AVCH8T245RHRLR QFN-24	TI	SN74AVCH8T245RHRLR	QFN-24		
55	1	U12		IC, Level Translator SN74AVCH4T245RGRYR VQFN	TI	SN74AVCH4T245RGRYR	VQFN		

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