

# Bill of Materials

TI DESIGNS

TIDA-01347 P66 4KUHD DMD Board

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	DNI	Notes
1	4	C1,C2,C7,C9	0.1uF	Capacitor 0.1uF 10% 16V X7R 0603AVX	AVX	0603YC104KAT2A	0603		
2	4	C3,C4,C6,C8	0.001uF	Capacitor 0.001uF 10% 50V X7R 0603AVX	AVX	06035C102KAT2A	0603		
3	0		2700pF	Capacitor 2700pF 10% 50V X7R 0402avx	Yageo	CC0402KRX7R9BB272	0402		C5,C28
4	6	C10,C11,C12,C23,C26,C51	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	6.2 PF	Capacitor 6.2 PF 50V NPO 0402AVX	Murata	GJM1555C1H6R2CB01D	0402		
7	1	C15	22uF	Capacitor 22uF 20% 16V X5R 1210	Taiyo Yuden	EMK325BJ226MM-T	1210		
8	5	C16,C18,C21,C24,C27	0.1uF	Capacitor 0.1uF 20% 50V X7R 0805avx	AVX	08055C104MAT2A	0805		
9	1	C17	1000pF	Capacitor 1000pF 10% 50V X7R 0805avx	AVX	08055C102KAT2A	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,C45,C46,C47,C48,C49,C50,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	1	D1		Diode, Zener 3.3V 3.3V SC-90A	PANASONIC	DZ2J033	SC-90A		
15	1	D2		DIODE Zener 11V 5% 3W DO214AA	Microcommercial	35MBJ5926B-TP	DO214AA		
16	1	D3		Diode Schottky STPS0540Z 40V 0.5A SOD123	STM	STPS0540Z	SOD123		
17	2	D4,D5		Diode Schottky BAT54SW 30V sot323avx	NXP	BAT54SW	SOT323		
18	2	J1,J2		Connector DMD_FLEX_CONNECTOR CN150CUSTOM_REVB-MOD-NO-MH	INTERCON SYSTEMS	CN150CUSTOM_REVB	CN150CUSTOM_REVB-MOD-NO-MH		Nothing to Install
19	0			Connector TSM-102-01-T-SV CONN_2POS_2p54MM	Samtec	TSM-102-01-T-SV	CONN_2POS_2p54MM	J3	
20	1	J4		Connector, 4 Pin Conn_4 CONN_4	Molex	053261-0471	CONN_4		
21	4	L1,L2,L3,L4		Ferrite 220 OHM @ 100MHz 25% 2A, 50mOhm 0805avx	MURATA	BLM21PG221SN1D	0805		
22	1	L5	22 uH	Inductor 22 uH 20% 0.65 A, 0.36Ohm IND_LPS4018	COILCRAFT	LPS4018-223ML	IND_LPS4018		
23	4	Q1,Q2,Q3,Q4		MOSFET, N-Channel N-CHANNEL MOSFET 460MW 20V SOT23AVX	FAIRCHILD SEMI	FDV303N	SOT23		
24	1	Q5		MOSFET, N-Channel P-CHANNEL MOSFET 130MA 50V SOT23AVX	FAIRCHILD SEMI	BSS84	SOT23		
25	1	Q7		Transistor, NPN 2N2222A 40V, 500mA SOT23AVXD	FAIRCHILD	MMBT2222A	SOT23		
26	1	Q8		MOSFET, N-Chan 2N7002 7.5 ohms @ 10 V, 500 mA SOT-23	ON Semiconductor	2N7002L	SOT-23		
27	1	Q9		FDMA910PZ MicroFET_2x2	Fairchild	FDMA910PZ	MicroFET_2x2		
28	0		1K	Resistor 1K 5% 1/10W 0603AVX	Panasonic	ERJ-3GEYJ102V	0603		R1,R30,R31
29	6	R2,R16,R21,R34,R35,R38	10K	Resistor 10K 5% 1/10W 0603AVX	Panasonic	ERJ-3GEYJ103V	0603		R3
30	2	R4,R28	0	Resistor 0 1/10W 0603avx	Panasonic	ERJ-3GEYOR00V	0603		R13,R39,R40
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	3	R8,R15,R41,R42	1K	Resistor 1K 5% 1/10W 0402	PANASONIC	ERJ-2GEJ102X	0402		
34	1	R14	2K	Resistor 2K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ202X	0402		
35	1	R17	15K	Resistor 15K 1% 1/10W 0603AVX	Yageo	RC0603FR-0715KL	0603		
36	1	R18	432K	Resistor 432K 1% 1/10W 0603avx	Panasonic	ERJ-3EKF4323V	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-3AEB5362V	0603		
40	1	R23	620K	Resistor 620K 0.1% 1/16W 0603avx	TE Connectivity	CPF0603B620KE1	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	3	R36,R37,R43,R44,R45,R46,R47,R48,R49,R50,R51,R52,R53,R54,R55,R56	33	Resistor 33 1% 1/16W 0402AVX	Yageo	RC0402FR-0733RP	0402		
46	2	R32,R33	51	Resistor 51 5% 1/10W 0402AVX	Panasonic	ERJ-2GEJ510X	0402		
47	1	U1		IC, Voltage Regulator LP385135-1.8/NOPB TO-263	TI	LP385135-1.8/NOPB	TO-263		
48	1	U2		IC Voltage Regulator TPS65145 SOIC24-PWP_TI	TI	TPS65145PWP	SOIC24-PWP_TI		
49	1	U3		IC, DMD DMD_0P7_TRP_S610 DMD_S600_Socket	TI DLP	DLP660TE	DMD_S600_Socket		
50	1	U4		IC, Temp Sensor TMP411 MSOP-8	TI	TMP411ADGK	MSOP-8		
51	2	U5,U6		IC, Level Translator SN74AVCH8T245RHLR QFN-24	TI	SN74AVCH8T245RHLR	QFN-24		
52	1	U7		IC, Level Translator SN74AVCH4T245RGYR VQFN	TI	SN74AVCH4T245RGYR	VQFN		

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
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