

Bill of Materials

TI DESIGNS

TIDA-080002

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	0	GPIO_5,TPT_8,TPT_9,TPT_10,TPT_11,P1P1V_DLPA,TPT_12,TPT_13,TPT_14,TPT_15,TPT_16,GPIO_17,P1P8V_DLPA,GPIO_19,P2P5V,P3P3V_DLPA,P_V5P5,I_V5P5,D_V5P5,VIRST,V0FS,VBIAS,MOSI,MISO,LED_A,CSZ,CLK	TP,40mil Drill,60mil Pad	HOLE_PLATED_40mil_DRILL_60mil_PAD	-- NOT A PART --			HOLE_PLATED_40mil_DRILL_60mil_PAD	
2	2	C1,C2	9pF	CAP CER 9PF 50V NP0 0402	TDK	CGJ2B2C0G1H090D050BA		402	
3	2	C3,C23	470pF	CAP CER 470PF 50V 5% NP0 0603	TDK	C1608C0G1H471J080AA		603	
4	4	C4,C8,C19,C20	22uF	CAP CER 22UF 6.3V 20% X5R 0603	TDK	C1608X5R0J226M080AC		603	
5	4	C5,C6,C12,C33	0.01uF	CAP CER 10000PF 16V X7R 10% 0402	TDK	C1005X7R1C103K		402	
6	29	C7,C21,C22,C28,C29,C30,C31,C32,C34,C35,C36,C37,C38,C39,C40,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C60,C61	0.1uF	CAP CER .1UF 16V X7R 0402	TDK	C1005X7R1C104K050BC		0402_AVXA	
7	3	C9,C10,C11	0.1uF	0.10uF 50V Ceramic Capacitor X7R 0402	TDK	CGA2B3X7R1H104K050BB		402	
8	5	C13,C41,C54,C55,C69	1uF	CAP CER 1.0UF 10V X5R 0402	TDK	C1005X5R1A105M		402	
9	1	C14	2.2uF	CAP CER 2.2UF 6.3V X5R 0402	TDK	C1005X5R0J225M		402	
10	1	C15	4.7uF	CAP CER 4.7UF 6.3V 20% X5R 0402	TDK	C1005X5R0J475M		402	
11	3	C16,C25,C79	10uF	CAP CER 10UF 10V 20% X5R 0603	TDK	C1608X5R1A106M080AC		603	
12	1	C17	10pF	CAP CER 10PF 50V NP0 0402	TDK	C1005C0G1H100D050BA		0402_AVXA	
13	1	C18	1200pF	CAP CER 1200PF 50V 5% NP0 1206	AVX	12065A122JAT2A		1206	
14	2	C24,C80	1uF	CAP CER 1UF 50V 10% X5R 0603	TDK	C1608X5R1H105K080AB		603	
15	10	C26,C27,C58,C59,C66,C67,C72,C73,C74,C75	22uF	CAP CER 22UF 35V 20% X5R 0805	TDK	C2012X5R1V226M125AC		805	
16	6	C56,C57,C64,C65,C68,C82	22uF	22uF ±20% 35V JB 1206	Murata	C3216JB1V226M160AC		1206	
17	6	C62,C63,C70,C71,C76,C77	1uF	CAP CER 1UF 25V 20% X5R 0402	TDK	C1005X5R1E105M050BC		402	
18	1	C78	10uF	CAP CER 10UF 35V 20% X5R 0805	TDK	C2012X5R1V106M085AC		805	
19	1	C81	0.47uF	CAP CER 0.47UF 50V 10% X5R 0603	TDK	C1608X5R1H474K080AB		603	
20	3	D1,D2,D4	ESDA18-K	TVS DIODE 15VWM 34VC SOD523	STMicroelectronics	ESDA18-1K		SOD523	
21	1	D3	MBR0540	SCHOTTKY RECT 40V 0.5A SOD123	Semiconductor	MBR0540		SOD123	
22	2	F1,F2	BLM15PD800SN1D	FERRITE CHIP 80 OHM 1500MA 0402	Murata	BLM15PD800SN1D		BLM15P	
23	0	I_SW	TP,20mil PAD	-- NOT A PART --				20mil_PAD	
24	1	J1	AXT550124	CONN SOCKET F4S .4MM 50POS SMD	Panasonic	AXT550124		Panasonic_AXT550124_counter_clkwise_pinout	
25	3	J2,J3,J4	087438-0643	CONN HEADER 6POS 1.5MM R/A SMD	Molex	874380643		Molex_0874380643	
26	1	J5	QSH-030-01-L-D-A	CONN RCPT HI-SPD .5MM 60POS DL (stacking ht 5mm)	Samtec	QSH-030-01-L-D-A		Samtec_QSH-030-xx-x-D-A	
27	2	L1,L2	3.3uH	FIXED IND 3.3UH 4.1A 57.8 MOHM	Vishay/Dale	IHL2020BZER3R3M11		IHL2020BZER	
28	1	L3	2.7uH	Inductor 2.7uH 9.2A 20% SMD	Coilcraft	XAL7030-272MEB		Coilcraft_XAL70300	
29	1	L4	10uH	INDUCTOR 10UH 20% 1.25A SMD	Coilcraft	LPS4018-103MRB		Coilcraft_LPS4018	
30	1	RT1	100k	THERMISTOR 100K OHM NTC 0402 SMD	Murata	NCP15WF104F03RC		402	
31	1	R1	100	RES 100 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1000X		402	
32	1	R2	953k	RES 953K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF9533X		402	
33	2	R3,R4	43	RES 43 OHM 1/20W 5% 0201 SMD	Panasonic	ERJ-1GEJ430C		201	
34	2	R5,R20	10	RES 10 OHM 1/4W 1% 0603 SMD	Panasonic	ESR03EZPF10R0		603	
35	4	R6,R32,R34,R37	10k	RES SMD 10K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF1002X		402	
36	8	R7,R8,R9,R12,R14,R16,R18,R24	30.1	RES 30.1 OHM 1/16W 1% 0402 SMD	Panasonic	ERJ-2RKF30R1X		402	
37	1	R10	0	RES 0.0 OHM 1/16W 0402 SMD	Panasonic	ERJ-2GE0R00X		402	
38	3	R11,R35,R36	30.0k	RES 30.0K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF3002X		402	
39	6	R13,R15,R17,R23,R25,R27	100k	RES 100K OHM 1/10W 1% 0402 SMD	Vishay/Dale	CRCW0402100KFKE		402	
40	1	R19	3.9	RES 3.9 OHM 1/2W 5% 1210 SMD	Rohm	ESR25JZPJ3R9		1210	
41	1	R21	0.025	RES SMD 0.025 OHM 1% 1W 2010	TT Electronics	LRC-LRF2010LF-01-R025F		2010	
42	1	R22	30k	RES 30.0K OHM 1/16W 1% 0402 SMD	Panasonic	ERJ-2RKF3002X		402	
43	1	R26	7.87k	RES 7.87K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF7871X		402	
44	0	R28,R30	7.87k	RES 7.87K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF7871X		402	
45	0	R29,R31	0	RES 0.0 OHM 1/16W 0402 SMD	Panasonic	ERJ-2GE0R00X		402	
46	1	R33	300	RES 300 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF3000X		402	
47	0	TPGND1,TPGND2,TPGND3	TP_BLK	TEST POINT PC MINI .040inD BLACK	Keystone	5001		KEYSTONE_TP_MINIA_TURE	
48	1	TPGND4	TP_BLK	TEST POINT PC MINI .040inD BLACK	Keystone	5001		KEYSTONE_TP_MINIA_TURE	
49	0	TPT_1,TPT_2,TPT_4,TPT_6,TPT_0	TP 40mil PAD	-- NOT A PART --				40mil_PAD	
50	1	U1	W25Q32JVSSIQ	IC FLASH 32MBIT 133MHZ 8SOIC	Winbond	W25Q32JVSSIQ TR		SOIC-8_208mil	
51	1	U2	DLPC3432	DLPC-PICO Processor	Texas Instruments	DLPC3432CZVB		DPP3432_7mmx7mm_VFBGA_176balls	
52	1	U3	DLPA3000	IC PMIC LED DRIVER	Texas Instruments	DLPA3000DPFD		PAD3000_POFP_100	
53	0	V2P5,V5P0	TP,60mil Pad	-- NOT A PART --				60mil_PAD	

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54	1	X1	24MHz	Type NX2016SA, 24MHz	KDS	1ZZCAA24000EE0C		NDK_EXS00A- CS05733	