

# TDTP2500B066B-KIT (Mainboard) Bill of Materials (BOM)

Designator	Qty	Value	Descriptor/Package	Manufacturer Part Number
D2	1		GBJ2506	GBJ2506-BP
LED1, LED2, LED3, LED4	4		LEDCHIP-LED0805	SML-211UTT86
J1	1		PJ-002AH	PJ-002AH
TP3, TP4, TP5, TP6, TP10, TP12, TP13, TP14	8	dni	TESTPOINT-KEYSTONE5015	dni
C2, C8, C9, C15, C16, C17, C18, C19, C20, C21, C27, C30, C31, C50, C52, C53, C54, C55, C56, C60, C73	21	.1u	C-EUC0603	C0603C104J3RACTU
R59	1	0	R-US_R0603	RCS06030000Z0EA
R72	1	0	R-US_R0805	RC0805JR-070RL
R9, R11, R12, R14, R29, R30	6	1.1M	R-US_R1210	KTR25JZPF1104
CX1, CX2, CX3	3	1.5u/275V	ECQ-U2A474ML1.0U	890334026030cs
C47	1	1.5u/630V	ECQ-U2A474ML1.0U	890334026030cs
D1	1	1N4148	DIODE-SOD123	1N4148W-E3-18
R6	1	1k	R-US_R0805	ERJ-6ENF1001V
C26, C28	2	1n	C-EUC0805	CC0805KRX7R9BB102
C13, C57, C58, C69, C80	5	1u	C-EUC0603	TMK107B7105KA-T
C63, C64, C65, C66	4	1u	C-USC0603	TMK107B7105KA-T
R53	1	2.1k	R-US_R0805	RC0805FR-072K1L
R48	1	2.2M	R-US_R0805	RMCF0805JT2M20
C59	1	2.2u	C-EUC1206	CL31B225KAHNNNE
R46	1	2K	R-US_R0805	ERJ-6ENF2001V
CN2	1	2PIN_9.53MM	2PIN_9.53MM	1714971
R38	1	2k	R-US_R0805	ERJ-6ENF2001V
R25, R27, R35, R36	4	3.3K .1%	R-US_R0805	ERA-6AEB332V
C1	1	3.3n	C-EUC0805	C0805C332K5RACTU
L1	1	3.9mH	CMC_42X27MM_SM	T60405-R6128-X225
L4	1	3.9mH	CM_42X27MM_JC	T60405-R6128-X225
CN1	1	3PIN_9.53MM	3PIN_9.53MM	1714984
R52	1	4.7k	R-US_R0805	RC0805FR-074K7L
R_CS	1	4m	RES_CSSH2728	CSSH2728FT4L00
R58	1	5.1k	R-US_R1206	RC1206FR-075K1L
R49	1	5k	R-US_R0805	RC0805FR-075K1L
R13	1	7.5K	R-US_R0805	ERJ-6ENF7501V
R16, R17, R31, R32	4	7.5k	R-US_R0805	RN73C2A7K5BTDF
R19	1	9.09K	R-US_R0805	ERJ-6ENF9091V
R40	1	10	R-US_R1206	ERJ-8ENF10R0V
R43, R44, R55	3	dni	R-US_R1206	dni
R7, R8, R10, R15, R37, R50, R57	7	10k	R-US_R0805	ERJ-6ENF1002V
NTC	1	dni	R-US_0204/5	dni
C14, C22, C23	3	dni	C-EUC1206	dni
C86	1	10u	C-EUC0805	GRM21BR61E106KA73L
C3, C10	2	10u	C-EUC1206	12063D106KAT2A
R18, R21, R54	3	15k	R-US_R0805	RC0805FR-0715KL
C61	1	22n	C-EUC0805	C2012C0G1V223J060AC
CX4	1	22n	ECQ-U2A474ML22N	PME271M522MR30
F1	1	30A	SH32	01020078H

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R60, R61, R62, R63, R64, R65	6	37.4k	R-US_R1206	RC1206FR-0737K4L
U12	1	74AUP2G14GW	74AUP2G14GW	NC7WZ14P6X
U5	1	74LVC1G14GW	74LVC1G14GW	NC7SZ14M5X
IC4	1	74LVC1G17GW	74LVC1G17GW	SN74LVC1G17DBVR
R34	1	100	R-US_R0603	RC0603FR-07100RL
R33	1	100k	R-US_R0805	ERJ-6ENF1003V
C25	1	100p	C-EUC0603	06035A101FAT2A
C7, C29, C81, C85	4	100u/16v	ELE_CAP_D5MM_P2MM	UKL1C101KPDANA
R20	1	165K	R-US_R0805	ERJ-6ENF1653V
C11, C51	2	220p	C-EUC0805	CC0805KRX7R9BB221
R39	1	392	R-US_R0603	RC0603FR-07392RL
C62, C67, C72	3	470uF	ELE_CAP_D35MM_P10MM	ALC10A471DF450
R75, R76, R77, R78	4	680	R-US_R0805	RC0805FR-07680RL
U13	1	CAP200DG	CAP200DG	CAP200DG
LCM1	1	CMC_WURTH_744229	CMC_WURTH_744229	744229
L2	1	DM-TOROID770711	DM-TOROID770711	CWS-1SN-12606
F2	1	15A 250V AC 100V DC Fuse	15A 250V AC 100V DC Fuse	0463015.ER
K1	1	G8P-1A4P-DC12	G8P-1A4P	JTN1AS-PA-F-DC12V
U\$15	1	GAN_DAUGHTEH ERCARD	GAN_CARD_CONNECTOR_V2	
IC2	1	INA826R	INA826R	INA826AID
JP1, JP2, JP3	3	JUMPER_S1621-46R	JUMPER_S1621-46R	S1621-46R
U14	1	LT1719	LT1719	LT1719CS6#TRMPBF
IC3	1	MCP1501T-18E/CHY	MCP1501T-18E/CHY	MCP1501T-18E/CHY
U4, U16	2	MCP6001T-E/OT	MCP6001T-E/OT	MCP6001T-E/OT
CONN1	1	MECF-30-01-L-DV-WT	MECF-30-01-L-DV-WT	MECF-30-01-L-DV-WT
U2	1	MIC5259-3.3YD5-TR	MIC5259-3.3YD5-TR	MIC5259-3.3YD5-TR
U8	1	MIC5271YM5-TR	MIC5271YM5-TR	MIC5271YM5-TR
R5	1	MS32_10015	MS35_10018	MS32 10015-B
Q5	1	NX3008NBK	NX3008NBK	NX3008NBK,215
U1	1	OPA188	OPA188	OPA188AIDBVT
IC1	1	OPA2188	OPA2188	OPA2188AIDR
L5	1	T91880B	T91880B	T91880B
U\$16	1	SYNC-RECT DAUGHTERCARD	GAN_CARD_CONNECTOR_V2	
U10	1	TPS60403	TPS60403	TPS60403DBVR
U3	1	V7805-500	V7805-500	TR05S05
J2, SV2	2	dni	MA04-1	dni
TP7	1	dni	TEKTRONIX-PCB	dni

## TDTP2500B066B-KIT (Mainboard) Bill of Materials (BOM)

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<b>Designator</b>	<b>Qty</b>	<b>Value</b>	<b>Descriptor/Package</b>	<b>Manufacturer Part Number</b>
CY1, CY2	2	dni	VY2_CAP_SAFETY	dni
stand off (nylon 1/2)	8	stand off (nylon 1/2)	stand off (nylon 1/2)	1902C
machine screw (ss 1/2)	8	machine screw (ss 1/2)	machine screw (ss 1/2)	9902

# TDTP2500B066B-KIT (TDHB-65H050BS-DC) Bill of Materials (BOM)

Designator	Qty	Value	Descriptor/Package	Manufacturer Part Number
R0	1	0	R-US_R0603	RMCF0603ZTOR00
C2, C6, C7	3	0.1uF	C-USC0603	CL10B104KA8NNNC
C3, C4, C8, C10	4	0.1uF	C-USC0805	CL21B104KACNNNC
CMC1	1	1.3uH	CMC_74423580	744235801
P1	1	6PINCONN	6PINCONN	61300611021
R5, R10, R13	3	10	R-US_R1206	HRG3216Q-10R0-D-T1
R1, R6, R7	3	10k	R-US_R0603	CRG0603J10K
C13	1	10nF	C-USC1206	CGA5L4COG2J103J160AA
C5	1	10uF	C-USC0805	GRM21BR61E106KA73L
C9, C11, C12	3	10uF	C-USC1206	TMK316BJ106ML-T
R4	1	20k	R-US_R0603	RMCF0603JT20K0
C1	1	22uF	C-USC1206	CL31A226KOCLNNC
C15, C16	2	33nF	C-USC1206	CL31B333KHHSFNE
C17, C18	2	33pF	C-USC0603	CC0603JRNPO8BN330
RG1, RG2	2	45 Ohm	R-US_R0603	RC0603FR-0745R3L
R11, R12	2	50 Ohm	R-US_R0603	RC0603FR-0749R9L
R3	1	100k	R-US_R0603	dni
SNC1, SNC2	2	100pF	C-USC1206	dni
FB1, FB2	2	220	R-US_R0603	BLM18AG221SN1D
D1	1	ESJ1	DIODE-DO214AC	ES1J
Q1	1	HS	TP65H050G4BS	TP65H050G4BS
Q2	1	LS	TP65H050G4BS	TP65H050G4BS
U2	1	PDS1-S5-S12	PDS1-S12-S12-M-TR	PDS1-S5-S12-M-TR
U1	1	SI8230	SI8230	SI8230BB-D-IS1
RGND, SNR1, SNR2	3	dni	R-US_R1206	dni
VSW, VDD, PGND	3		CONN PC PIN CIRC 0.040DIA GOLD	3620-2-32-15-00-00-08-0
HS1, HS2	2	<b>7106DG</b>	HEATSINK -Fins to be flattened so they do not overlap with other heatsink - contact me when assembling	7106DG
HS3	1	TGH-0075-01	HS for HS3	TGH-0075-01
Thermal Tape for HS3	1	Thermal Tape for HS3	Thermal Tape for HS3	TG-T1000-5.5-5.5-0.25- 5PT

# TDTP2500B066B-KIT (Sync Rec DC) Bill of Materials (BOM)

Designator	Qty	Value	Descriptor/Package	Manufacturer Part Number
R0	1	0	R-US_R0603	RMCF0603ZTOR00
C2, C3, C4, C6, C7, C8, C10	7	0.1uF	C-USC0603	CL10B104KA8NNNC
CMC1	1	1.3uH	CMC_74423580	744235801
P1	1	6PINCONN	6PINCONN	61300611021
RG1, RG2	2	10	R-US_R0603	ERJ-PA3F10R0V
R5	1	10	R-US_R1206	HRG3216Q-10R0-D-T1
R1, R6, R7, R11, R12	5	10k	R-US_R0603	RMCF0603JT10K0
C5, C9, C11	3	10uF	C-USC1206	TMK316BJ106ML-T
C1, C12	2	22uF	C-USC1206	CL31A226KOCLNNC
R3	1	dni	R-US_R0603	dni
R4	1	100k	R-US_R0603	ESR03EZPJ104
D1	1	ESJ1	DIODE-DO214AC	ES1J
Q1, Q2	2	IPT65R033G7 XTMA1	COOLMOS_G7	IPT65R033G7XTMA1
U2	1	PDS1-S5-S12	PDS1-S12-S12-M-TR	PDS1-S5-S12-M-TR
U1	1	SI8233	SI8233	SI8233
RGND	1	dni	R-US_R0603	dni
VSW, VDD, PGND	3		CONN PC PIN CIRC 0.040DIA GOLD	3620-2-32-15-00-00-08-0
HS	1	625-45AB	625-45AB - heatsink to be placed at area where thermal pad/sticker is placed.	625-45AB
Thermal Pad	1	BP100-0.011-00-1010	double side adhesive Thermal Pad - <b>cut 1.15" x 1.15"</b> and placed at top right corner of back side of PCB between Heatsink and PCB - see photo	BP100-0.011-00-1010