

# TDTP4000W066B-KIT Bill of Materials (BOM)

Designator	Qty	Value	Descriptor/Package	Manufacturer Part Number	Manufacturer
D3, D4	2		DO-214AC, SMA	ES1J	Micro Commercial
D2	1		4-SIP, GBJ	GBJ2506-BP	Micro Commercial
LED1, LED2, LED3, LED4	4		0805 (2012 metric)	SML-211UTT86	ROHM Semiconductor
SV2	1		MA04-1	961104-6404-AR	3M
SV1	1		MA07-2	67996-114HLF	FCI
J1	1			PJ-002AH	CUI
TP7, TP8, TP9, TP11	4		Probe connector	131-4353-00	Tektronix
TP1, TP2, TP3, TP4, TP5, TP6, TP10, TP12, TP13, TP14	10			5015	Keystone
C2, C5, C8, C9, C15, C16, C17, C18, C19, C24, C27, C30, C31, C32, C33, C35, C37, C39, C42, C44, C50, C52, C53, C54, C55, C56, C60, C73	28	0.1µF	C0603	C0603C104J3RACTU	Kemet
C13, C14, C22, C23	4	0.1µF	C1812	C1812V104KDRACTU	Kemet
R59, R71	2	0	R0603	RCS06030000Z0EA	Vishay
R72	1	0	R0805	RC0805JR-070RL	Yageo
R42, R70	2	1Ω	R0805	RMCF0805FT1R00	Stackpole
R9, R11, R12, R14, R29, R30	6	1.1MΩ	R1210	KTR25JZPF1104	ROHM Semiconductor
CX1, CX2, CX3	3	1.5µF/275V	Radial	155MKP275KG	Illinois Capacitor
R1, R3	2	10Ω	R0805	ERJ-6GEYJ100V	Panasonic
R40	1	10Ω	R1206	ERJ-8ENF10ROV	Panasonic
R26, R33	2	100kΩ	R0805	RJ-6ENF1003V	Panasonic
C25	1	100pF	C0603	06035A101FAT2A	AVX Corporation
C7, C29, C81, C85	4	100µF/16V	Radial, Can	UKL1C101KPDANA	Nichicon
C12	1	100µF/25V	Radial, Can	ESK107M025AC3AA	Kemet
R2, R4, R7, R8, R10, R15, R37, R45, R47, R50, R57	11	10kΩ	R0805	ERJ-6ENF1002V	Panasonic
NTC	1	10kΩ @25°C	Ring Lug	B57703M103G40	EPCOS (TDK)
C20, C21	2	10nF	C1206	SMK316B7103KF-T	Taiyo Yuden
C78, C79	2	10pF	C0603	C0603C100K3GACTU	Kemet
C86	1	10µF	C0805	GRM21BR61E106KA73L	Murata
C3, C4, C6, C10, C34, C38	6	10µF	C1206	12063D106KAT2A	AVX
C48	1	10µH	Radial - 4 Leads	C4ATGBW5100A3FJ	Kemet
R24	1	12kΩ (65k for 8274)	R0805	RC0805FR-0712KL	Yageo
R28, R51	2	15Ω	R1210	RMCF1210FT15R0	Stackpole
R18, R21, R54	3	15kΩ	R0805	05FR-0715KL	Yageo
R20	1	165kΩ	R0805	ERJ-6ENF1653V	Panasonic
D1	1		SOD-123	1N4148W-E3-18	Vishay
R6	1	1kΩ	R0805	ERJ-6ENF1001V	Panasonic
C26, C28	2	1nF	C0805	CC0805KRX7R9BB102	Yageo
C45, C57, C58, C69, C80, C63, C64, C65, C66	9	1µF	C0603	TMK107B7105KA-T	Taiyo Yuden
R53	1	2.1kΩ	R0805	RC0805FR-072K1L	Yageo
R48	1	2.2MΩ	R0805	RMCF0805JT2M20	Stackpole
C59	1	2.2µF	C1206	CL31B225KAHNNNE	Samsung Electro
C11, C51	2	220pF	C0805	CC0805KRX7R9BB221	Yageo
C61	1	22nF	C0805	C2012C0G1V223J060AC	TDK
CX4	1	22nF	ECQ-U2A224ML	PME271M522MR30	Kemet
C40, C41	2	22µF	C1206	CL31X226KAHN3NE	Samsung Electro
R38, R46	1	2kΩ	R0805	ERJ-6ENF2001V	Panasonic

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CN2	1		2PIN_9.53MM	20020705-M021B01LF	FCI
R25, R27, R35, R36	4	3.3kΩ 0.1%	R0805	ERA-6AEB332V	Panasonic
C1	1	3.3nF	C0805	C0805C332K5RACTU	Kemet
L1	1	3.9mH	CMC_42X27MM_SM	T60405-R6128-X225	Vacuumschmelze
R34, R39, R41, R55, R56, R66, R67, R68, R73, R74	10	30Ω	R0805	BLM21SN300SH1D	Murata
F1	1	30A	SH32	01020078H	Littelfuse
R60, R61, R62, R63, R64, R65	6	37.4kΩ	R1206	RC1206FR-0737K4L	Yageo
CN1	1		3PIN 9.53MM	20020316-H031B01LF	FCI
R43, R44	2	4.7Ω	R0805	RNCP0805FTD4R70	Stackpole
R22, R23	2	4.7Ω	R1206	CRM1206-JW-4R7ELF	Bourns
R52	1	4.7kΩ	R0805	RC0805FR-074K7L	Yageo
CY1, CY2	2	4.7nF	VY2_CAP_SAFETY	B32021A3472M	EPCOS (TDK)
C36, C43, C46	3	4.7μF	C1206	CL31B475KBHNNNE	Samsung Electro
C74, C75	2	47pF	C1206	CC1206JKNPQZBN470	Yageo
R_CS	1	4mΩ	Wide 2827	CSSH2728FT4L00	Stackpole
R58	1	5.1kΩ	R1206	RC1206FR-075K1L	Yageo
R49	1	5kΩ	R0805	RC0805FR-075K1L	Yageo
R75, R76, R77, R78	4	680Ω	R0805	RC0805FR-07680RL	Yageo
C49, C62, C67, C72	4	560μF	ELE_CAP_D35MM_P10	ALC10A561DF450	Kemet
L4	1	7.2mH	CMC_42X27MM	T60405-R6128-X230	Vacuumschmelze
R19	1	7.32kΩ	R0805	RC0805FR-077K32L	Yageo
R13	1	7.5kΩ	R0805	ERJ-6ENF7501V	Panasonic
R16, R17, R31, R32	4	7.5kΩ	R0805	RN73C2A7K5BTDF	Panasonic
IC4	1		SOT-23-5	SN74LVC1G17DBVR	Texas Instruments
LCM1, LCM2	2		CMC_WURTH_744229	744229	Würth
CN3	1		DIM100	5390213-1	TE Connectivity
L2, L3	2		DM-77071B	CWS-1SN-12606	CWS
Q5	1		SOT-23	FDV301N	Fairchild/ON Semiconductor
F2	1	10A	SMM-FUSE	65800003109	Littelfuse
K1	1		G8P-1A4P	JTN1AS-PA-F-DC12V	Panasonic Electric Works
L6	1		DM-77894-AWG11	CWS-1SN-12554	CWS
HS1	1		HS-OMNI-41-75	OMNI-UNI-41-75	Wakefield-Vette
IC2	1		SO8	INA826AID	Texas Instruments
IC3	1		SOT-23-3	ISL21010CFH315Z-TK	Intersil
JP1, JP2, JP3, JP4	4		JUMPER-S1621-46R	S1621-46R	Harwin Inc
U14	1		TSOT-23	LT1719CS6#TRMPBF	Linear Technology
J2	1		MALE_CONN_HEADER_4PIN_2.54MM	961104-6404-AR	3M
U8	1		SOT-23-5	MAX1735EUK50+T	Maxim Integrated
R5	1		MS35_10018	MS32 10015-B	Ametherm
U5	1		SOT-23-5	NC7SZ14M5X	Fairchild/ON Semiconductor
U12	1		SC70	NC7WZ14P6X	Fairchild/ON Semiconductor
U13	1		SOIC-8	NCP4810DR2G	ON Semiconductor
U1, U4, U16	3		SOT-23-5	OPA188AIDBVT	Texas Instruments
IC1	1		SO8	OPA2188AIDR	Texas Instruments
U11	1		8-SMD Module, 5 Leads, Gull Wing	PDS1-S12-S12-M-TR	CUI
L5	1		PFC_4KW	019-8598-00R	Precision
U7	1		SOIC16N	SI8230BB-D-IS1	Silicon Labs
U6	1		SOIC16N	SI8233BB-D-IS1	Silicon Labs
Q1, Q4	2		TO-247AD-V	STY139N65M5	STMicroelectronics
Q2, Q3	2		TO-247	TP65H035WS	Transphorm

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U10	1		SOT-23-5	TPS60403DBVR	Texas Instruments
U2	1		SOT-23-5	TPS73033DBVR	Texas Instruments
U3	1		3-SIP Module	V7805-500	CUI
	1		Control Card	TMS320F28335	Texas Instruments
	9		Standoff (nylon 1/2)	1902C	Keystone
	9		Machine Screw (ss 1/2)	9902	Keystone
	2		Thermal Pad for Q2, Q3	4169G	Avid Thermology
	2		6/32 Screws for FETs to HS (Q2, Q3)		