

TDTP2500P100-KIT Bill of Materials (BOM)

Designator	Qty	Value	Descriptor/Package	Manufacturer Part Number	Manufacturer
HS1	1		529802B02500G	530002B02500G	Aavid Thermalloy
D3, D4	2		DIODE-DO-214AC	ES1J	Micro Commercial
CN1, CN2	2		FCI_20020316-3P	20020316-H031B01LF	FCI
D2	1		GBJ2506	GBJ2506-BP	Micro Commercial
SV2	1		MA04-1	961104-6404-AR	3M
SV1	1		MA07-2	67996-114HLF	FCI
J1	1		PJ-002AH	PJ-002AH	CUI
F1	1		SH32	01020078H	Littelfuse
TP7, TP8	2		TEKTRONIX-PCB	131-4353-00	Tektronix
TP1, TP2, TP3, TP4, TP5, TP6, TP9, TP10, TP11, TP12, TP14	11		TESTPOINT-KEYSTONE5015	5015	Keystone
C2, C5, C8, C9, C16, C17, C18, C19, C24, C27, C30, C31, C32, C33, C35, C37, C39, C42, C44, C50, C52, C53, C54, C55, C56, C58	26	0.1µF	C-EUC0603	CC0603KRX7R8BB104	Yageo
C22, C23	2	0.1µF	C-EUC1812	C1812V104KDRACTU	Kemet
CX1, CX2, CX3	3	1µF/275V	ECQ-U2A474ML1.0U	ECQ-U2A105ML	Panasonic
R1, R3	2	10Ω	R-US_R0603	RNCP0603FTD10R0	Stackpole
R40	1	10Ω	R-US_R1206	ERJ-8ENF10R0V	Panasonic
R26, R33	2	100kΩ	R-US_R0805	RJ-6ENF1003V	Panasonic
C25	1	100pF	C-EUC0603	06035A101FAT2A	AVX Corporation
C7, C12, C29	3	100µF/25V	CPOL-USE2.5-7	ESK107M025AC3AA	Kemet
R2, R4, R7, R8, R10, R15, R34, R37, R39	9	10kΩ	R-US_R0603	ESR03EZPJ103	ROHM Semiconductor
C20, C21, C47	3	10nF	C-EUC1206	C3216C0G2J822J160AA	TDK
C3, C4, C6, C10, C38	5	10µF	C-EUC1206	CL31A106KAHNNNE	Samsung Electro-Mechanics
L4, L5	2	10µF loose winding	DM-TOROID	P1192_1	MPS Industries
R24	1	12kΩ	R-US_R0805	RC0805FR-0712KL	Yageo
RSN1, RSN2	2	15Ω	R-US_R1206	RNCP1206FTD15R0	Stackpole
R16, R17, R18, R21, R31, R32	6	15kΩ	R-US_R0805	05FR-0715KL	Yageo
R20	1	165kΩ	R-US_R0805	ERJ-6ENF1653V	Panasonic
D1	1		DIODE-SOD123	1N4148W-E3-18	Vishay
R6	1	1kΩ	R-US_R0805	RC0805JR-071KL	Yageo
C26, C28	2	1nF	C-EUC0805	CC0805KRX7R9BB102	Yageo
C45, C57, C69	3	1µF	C-EUC0805	CC0805ZRY5V8BB105	Yageo
C63, C64, C65, C66	4	1µF	C-USC0603	TMK107B7105KA-T	Taiyo Yuden
R9, R11, R12, R14, R29, R30	6	2.2MΩ	R-US_R1210	KTR25JZPF2204	ROHM Semiconductor
CY1, CY2, CY3, CY4	4	2.2nF	PHE850YCAP	PHE850EA4220MA01R17	Kemet
C59	1	2.2µF	C-EUC1206	CL31B225KAHNNNE	Samsung Electro-Mechanics
R41, R42	2	20Ω	R-US_R1206	RNCP1206FTD20R0	Stackpole
C11, C51	2	220pF	C-EUC0805	CC0805KRX7R9BB221	Yageo
CX4	1	22nF	ECQ-U2A474ML22N	PME271M522MR30	Kemet
C40, C41	2	22µF	C-EUC1206	CL31A226KAHNNNE	Samsung Electro-Mechanics
CSN1, CSN2	2	47pF	C-EUC1206	CL31C470J1FNFNE	Samsung Electro-Mechanics
R38, R46	2	2kΩ	R-US_R0805	ERJ-6ENF2001V	Panasonic

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C1	1	3.3nF	C-EUC0805	C0805C332K5RACTU	Kemet
FB1, FB2, FB3, FB4	4	30Ω	R-US_R0805	BLM21SN300SH1D	Murata
GFB1, GFB2	2	330Ω	R-US_R0603	MPZ1608S331ATA00	TDK
RG1, RG2	2	4.7Ω	R-US_R0603	ESR03EZPJ4R7	ROHM Semiconductor
R22	1	10Ω	R-US_R1206	CRCW120610R0FKEAHP	Vishay
R23	1	4.7Ω	R-US_R1206	CRM1206-JW-4R7ELF	Bourns
C34, C36, C43, C46	4	4.7μF	C-EUC1206	C0805C475K4PACTU	Kemet
C72, C73, C74	3	470μF	ELE_CAP_D35MM_P10 MM	ALC10A471DF450	Kemet
L1, L2	2		DM-TOROID77071	P1139 rev A.	MPS Industries
R28	1	5mΩ	R-US_0613/15	12FR005E	Ohmite
R19, R13	2	7.5kΩ 0.1%	R-US_R0805	RC0805FR-077K5L	Yageo
R25, R27, R35, R36	4	7.5kΩ 0.1%	R-US_R0805	ERA-6AEB752V	Panasonic
IC4	1		74AUC1G17DBV	SN74LVC1G17DBVR	Texas Instruments
CM1, CM5	2		ACM4520	ACM4520-142-2P-T000	TDK
C48, C49	2		B32672P4225	B32672P4225K	Epcos (TDK)
L3	1		CMC_BOURNS_8119_R C	8121-RC	Bourns
CN3	1		DIMM socket	5390213-1	TE Connectivity
Q5	1		BSS138-7-F	FDV301N	Fairchild/ON Semiconductor
K1	1		JTN1AS-PA-F-DC12V	JTN1AS-PA-F-DC12V	Omron Electronics
IC2	1		INA826R	INA826AID	Texas Instruments
IC3	1		ISL21010	ISL21010CFH315Z-TK	Intersil
U14	1		LT1719	LT1719CS6#TRMPBF	Linear Technology
U8	1		MAX1735	MAX1735EUK50+T	Maxim Integrated
R5	1	10Ω	THERMISTOR-AMETHERM	SL32 10015	Ametherm
U5	1		NC7SZ14M5X	NC7SZ14M5X	Fairchild/ON Semiconductor
U1, U16	2		AD8031RJ	OPA188AIDBVT	Texas Instruments
IC1	1		AD826R	OPA2188AIDR	Texas Instruments
U11	1		PDS1-S5-S12-M-TR	PDS1-S5-S12-M-TR	CUI
L6	1		P1941_A	P1941_A	MPS Industries
U7	1		SI8230	SI8230BB-D-IS1	Silicon Labs
U6	1		SI8233	SI8233BB-D-IS1	Silicon Labs
Q1, Q4	2		STY105NM50N	STY105NM50N	STMicroelectronics
Q2, Q3	2		TPH3212PS	TPH3212PS	Transphorm
U10	1		TPS60403	TPS60403DBVR	Texas Instruments
U2	1		TPS73033	TPS73033DBVR	Texas Instruments
U3	1		V7805-500	7805-500	CUI
	7		Stand off (nylon 1/2)	1902C	Keystone
	7		Machine screw (ss 1/2)	9902	Keystone
	1		Thermal pad for Q3	4169G	Aavid Thermalloy
	1		Screw for FETs HS	9902	Keystone
	2		Washer shoulder to be placed between screw and FET assembly	3049	Keystone
	1		Nut for FETs to HS	9600	Keystone
	1		Control card	TMDSCNCD28335	Texas Instruments
	1		12Vdc aux supply	SWI10-12-N-P5	CUI
R5	1	10Ω	THERMISTOR-AMETHERM	SL32 10015	Ametherm

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U5	1		NC7SZ14M5X	NC7SZ14M5X	Fairchild/ON Semiconductor
U1, U16	2		AD8031RJ	OPA188AIDBVT	Texas Instruments
IC1	1		AD826R	OPA2188AIDR	Texas Instruments
U11	1		PDS1-S5-S12-M-TR	PDS1-S5-S12-M-TR	CUI
L6	1		P1941_A	P1941_A	MPS Industries
U7	1		SI8230	SI8230BB-D-IS1	Silicon Labs
U6	1		SI8233	SI8233BB-D-IS1	Silicon Labs
Q1, Q4	2		STY105NM50N	STY105NM50N	STMicroelectronics
Q2, Q3	2		TPH3212PS	TPH3212PS	Transphorm
U10	1		TPS60403	TPS60403DBVR	Texas Instruments
U2	1		TPS73033	TPS73033DBVR	Texas Instruments
U3	1		V7805-500	7805-500	CUI
	7		Standoff (nylon 1/2)	1902C	Keystone
	7		Machine screw (ss 1/2)	9902	Keystone
	1		Thermal pad for Q3	4169G	Aavid Thermalloy
	1		Screw for FETs HS	9902	Keystone
	2		Washer shoulder to be placed between screw and FET assembly	3049	Keystone