

## TDINV3000W050-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number	Manufacturer
HS1, HS2	2		530002B02500G	530002B02500G	Aavid Thermalloy
J2, J3, J4, J5	4		KEYSTONE_7691	7691	Keystone
LED1	1		LEDCHIP-LED0805	SML-211UTT86	Rohm
J1	1		PJ-002AH	PJ-002AH	CUI Inc
U_VDS, V_VDS	2		TEKTRONIX-PCB	131-4353-00	Tektronix
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10	10		TESTPOINT-KEYSTONE5015	5015	Keystone
C1, C13, C14, C15, C16, C19, C20, C21, C22, C25, C27	11	.1u	C-USC0603	06033C104JAT2A	AVX
C8, C9, C10, C11	4	.1u	C-USC0805	08053C104KAT2A	AVX
C43, C44	2	.1u	C-USC2225K	VJ2225Y104KXGAT	Vishay
R3	1	0	R-US_R1206	ERJ-8GEY0R00V	Panasonic
R33, R34, R35, R36, R37, R38, R39, R40	8	1.6M	R-US_R1206	ERJ-8ENF1604V	Panasonic
R6, R7, R8, R9	4	10	R-US_R0805	ERJ-6GEYJ100V	Panasonic
DCSNUB1, DCSNUB2, DCSNUB3, DCSNUB4, DCSNUB5, DCSNUB6	6	10	R-US_R1210	AC1210FR-0710RL	Yageo
R10, R12, R14, R16	4	27	R-US_R0603	ESR03EZPJ270	Rohm
R19, R24	2	10.2k	R-US_R0603	ERJ-3EKF1022V	Panasonic
C31, C32	2	100nF	C-EUC1206	CL31F104MBCNNNC	Samsung Electronics
C33	1	100pF (10v)	C-USC0603	885012006008	Würth Electronics
C3	1	100u	PANASONICFPV	EEE-FPE101XAP	Panasonic
R11, R13, R15, R17	4	10k	R-US_R0603	ERJ-3GEYJ103V	Panasonic
R41, R42, R43, R44, R51	5	10k	R-US_R1206	RC1206FR-0710KL	Yageo
C34, C35, C36, C38, C39, C40	6	10n / 630V	C-EUC1206	GRM31BR72J103KW01L	Murata
C17, C18, C23, C24	4	10u	C-EUC0805	C0805C106M4PACTU	Kemet
C4	1	10u	C-USC1206	CL31A106KAHNNNE	AVX
RSN1, RSN2, RSN3, RSN4	4	15	R-US_R1206	RNCP1206FTD15R0	Stackpole
R1	1	1k	R-US_R0805	ERJ-6GEYJ102V	Panasonic
C26, C28	2	1n	C-USC0603	DNI	DNI
C7, C12	2	1n	C-USC0805	CC0805KRX7R9BB102	Yageo
C29, C30	2	220pF	C-EUC1206	885012008014	Würth Electronics
CSN1, CSN2, CSN3, CSN4	4	47pF	C-EUC1206	VJ1210A470JXGAT5ZL	Vishay
C2	1	22u	C-USC1206	CL31A226KAHNNNE	Samsung Electronics
C42	1	2uF	2uF	B32674D6225K	Epcos

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R2	1	348	R-US_R0805	ERJ-6ENF3480V	Panasonic
L1, L2	2	440UH_MPP	440UH_MPP	440uH vertical inductor	mps
R18, R23	2	5.23k	R-US_R0603	ERJ-3EKF5231V	Panasonic
R4, R5	2	12k	R-US_R0603	RC0603FR-0712KL	Yageo
R20, R21, R25, R26	4	560k	R-US_R1206	RC1206FR-07560KL	Yageo
R28, R29, R30, R31	4	680k	R-US_R1206	ERJ-P08J684V	Panasonic
R22, R27, R32	3	9.09k	R-US_R1206	ERJ-8ENF9091V	Panasonic
U5, U6	2	ACS723	ACS723	ACS723LLCTR-20AB-T	Allegro Microsystems
CN1	1	DIM100	DIM100	5390213-1	Texas Instruments
C6	1	22uF	22uF	MKP1848625454P4	Vishay
U7	1	OPA2350UA/2K5	OP_JC	OPA2350UA/2K5	Texas Instruments
U2	1	PTH08080WAH	PTH08080WAH	PTH08080WAH	TI
U3, U4	2	SI82xx	SI8230	SI8230BB-D-IS	SiLabs
Q1, Q2, Q3, Q4	4	TPP65H050WS	TPP65H050WS	TPP65H050WS	TRANSPHORM
U1	1	TPS79533	TPS79533	TPS79533DCQR	TI
D1, D2	2	ES1J	DIODE-D0-214AC	ES1J	Fairchild
<b>**BETWEEN TP65H050WS (Q1, Q3) AND HEATSINK</b>	2	THERMAL PAD	<b>**BETWEEN TP65H050WS (Q1, Q3) AND HEATSINK</b>	4169G	Aavid Thermalloy
<b>"screw on TD65H050WS to heatsink</b>	2	4-40 SCREW	<b>"screw on TD65H050WS to heatsink</b>	PMSSS 440 0063 PH	B&F
<b>Used to mount TP90H180PS to heatsink</b>	2	4-40 NUT	<b>Used to mount TP90H180PS to heatsink</b>	9600	keystone
<b>used in between screw/nut and TP90H180PS</b>	4	NYLON WASHER SHOULDER	<b>used in between screw/nut and TP90H180PS</b>	3049	keystone
<b>To place under PCB (5 locations: 4 each corner, 1 in the middle</b>	5	bumper cylin 0.312" dia blk	<b>To place under PCB (5 locations: 4 each corner, 1 in the middle</b>	SJ-5003 (BLACK)	3M
<b>washer shoulder #6. To be installed between heatsink pins and PCB</b>	4	washer shoulder #6. To be installed between heatsink pins and PCB	<b>washer shoulder #6. To be installed between heatsink pins and PCB</b>	7683	keystone