

## TDINV1000P100-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number	Manufacturer
HS1, HS2	2		529802B02500G_PINS	529802B02500G	Aavid Thermalloy
J2, J3, J4, J5	4		KEYSTONE_7691	7691	Keystone
LED1	1		LEDCHIP-LED0805	SML-211UTT86	Rohm
L1, L2	2	295uH INDUCTOR	295uH INDUCTOR	CWS-1SN-12471	CWS
J1	1		PJ-002AH	PJ-002AH	CUI Inc
U_VDS, V_VDS	2		TEKTRONIX-PCB	131-4353-00	Tektronix
TP3, TP4, TP5, TP6, TP9, TP10	6		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
C5	1	.1u	C-USC2225K	C2225C104KFRACTU	Kemet
R52, R53	2	0	R-US_R0603	RC0603JR-070RL	Yageo
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
R1	1	1k	R-US_R0805	ERJ-6GEYJ102V	Panasonic
C7, C12	2	1n	C-USC0805	CC0805KRX7R9BB102	Yageo
C26, C28	2	1n dni	C-USC0603	DNI	DNI
R18, R23	2	5.23k	R-US_R0603	ERJ-3EKF5231V	Panasonic
R4, R5	2	5.76k	R-US_R0603	RC0603JR-070RL	Yageo
C42	1	2uF	B32674D6225K000	B32674D6225K000	EPCOS
R22, R27, R32	3	9.09k	R-US_R1206	ERJ-8ENF9091V	Panasonic
R6, R7, R8, R9	4	10	R-US_R0805	ERJ-6GEYJ100V	Panasonic
R45, R46, R48, R49	4	10	R-US_R1206	RNCP1206FTD10R0	Stackpole
R19, R24	2	10.2k	R-US_R0603	ERJ-3EKF1022V	Panasonic
R11, R13, R15, R17	4	10k	R-US_R0603	ERJ-3GEYJ103V	Panasonic

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R41, R42, R43, R44, R51	5	10k	R-US_R1206	RC1206FR-0710KL	Yageo
C34, C35, C38, C39	4	10n / 630V	C-EUC1206	GRM31BR72J103KW01L	
C17, C18, C23, C24	4	10u	C-EUC0805	C0805C106M4PACTU	Kemet
C4	1	10u	C-USC1206	CL31A106KAHNNNE	AVX
RSN1, RSN2, RSN3, RSN4	4	15 DNI	R-US_R1206	DNI	DNI
R10, R12, R14, R16	4	20	R-US_R0603	CRCW060320R0FKEA	Vishay
CSN1, CSN2, CSN3, CSN4	4	22pF DNI	C-EUC1206	DNI	DNI
C2	1	22u	C-USC1206	CL31X226KAHN3NE	Samsung Electronics
C31, C32	2	100nF	C-EUC1206	CL31F104MBCNNNC	Samsung Electro-Mechanics
C33	1	100pF (10v)	C-USC0603	885012006008	Würth Electronics
C3	1	100u	PANASONICFPV	EEE-FPE101XAP	Panasonic
FB1, FB2, FB3, FB4	4	120	FB0603	FBMH1608HL121-T	Taiyo Yuden
C29, C30	2	220pF	C-EUC1206	885012008014	Würth Electronics
R2	1	348	R-US_R0805	ERJ-6ENF3480V	Panasonic
R20, R21, R25, R26	4	560k	R-US_R1206	RC1206FR-07560KL	Yageo
R28, R29, R30, R31	4	680k	R-US_R1206	ERJ-P08J684V	Panasonic
U5, U6	2	ACS723	ACS723	ACS723LLCTR-20AB-T	Allegro Microsystems
CN1	1	DIM100_TICONTROLCARD	DIM100_TICONTROLCARD	5390213-1	TE Connectivity
C43, C44	2	DNI	C-USC2225K	DNI	DNI
R54, R55	2	DNI	R-US_R0603	DNI	DNI
C6	1	15uF	15uF	MKP1848622454P4	TDK
U7	1	OPA2350UA/2K5	OP_JC	OPA2350UA/2K5	Texas Instruments

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Designator	Qty	Value	Description	Part Number	Manufacturer
U2	1	PTH08080WAH	PTH08080WAH	PTH08080WAH	TI
U3, U4	2	SI8273	SI8273	SI8273AB-IS1	Silicon Labs
Q1, Q2, Q3, Q4	4	TPH3206PSB	TPH_TO220VERT_TRI	TPH3206PSB	TRANSPHORM
U1	1	TPS79533	TPS79533	TPS79533DCQR	TI
D1, D2	2	ES1J	DIODE-DO-214AC	ES1J	Fairchild
	2	Q1, Q3 insulator		SP2000-0.015-00-54	Bergquist
	2	Q2, Q4 insulator		53-77-9G	Aavid Thermalloy
Screw on TP90H180 PS to heatsink	"screw on TPH3206PS B to heatsink	2		9902	Keystone
Nut to mount TP90H180 PS to heatsink	Used to mount TPH3206PS B to heatsink	2		9600	Keystone
Nylon washer shoulder in between screw/nut and TP90H180 PS	used in between screw/nut and TPH3206PS B	4		3049	Keystone
Bumper to be placed under PCB (5 locations: 4 each corner, 1 in the middle)	To place under PCB (5 locations: 4 each corner, 1 in the middle)	5		SJ-5003(BLACK)	3M
9Vdc aux supply	1	9Vdc aux supply	9Vdc aux supply	VER05US090-JA	XP Power
CONTROL CARD PICCOLO ISO F28035	1	CONTROL CARD PICCOLO ISO F28035	CONTROL CARD PICCOLO ISO F28035	TMDSCNCD28035ISO	Texas Instruments