

TDTP4000W065AN-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number
JP1, JP2	2	JUMPER TIN SMD	JUMPER TIN SMD	S1621-46R
X1, X2, X3, X4, X5	5	CONN RCPT 5POS 0.079 GOLD PCB	CONN RCPT 5POS 0.079 GOLD PCB	MMS-105-01-L-SV
CN1	1	TERM BLK 3P SIDE ENT 9.53MM PCB	TERM BLK 3P SIDE ENT 9.53MM PCB	OSTT7032150
CN2	1	TERM BLK 2P SIDE ENT 9.53MM PCB	TERM BLK 2P SIDE ENT 9.53MM PCB	OSTT7022150
F1 - Holder	2	FUSE CLIP	CARTRIDGE PCB	BK/1A1907-06-R
F1 - Fuse	1	FUSE CERM 30A	250VAC 125VDC 3AB	BK/ABC-30-R
HS1, HS2 - One Piece Heat Sink	1	LAM 4K 50mm mit Motor 12V	LAM 4K 50mm mit Motor 12V	10038775
Clips for Mounting Devices onto Heat Sink	4	THFU 2	THFU 2	10065593
Thermal Pad for Mounting Devices onto Heat Sink	4	Thermal Pad	Thermal Pad	SPK10-0.006-00-104
Fan	1	FAN AXIAL	40X10MM VAPO 12VDC	CFM-4010V-185-314
Finger guard for Fan	1	FINGER GUARD 40MM METAL	FINGER GUARD 40MM METAL	8149
D1	1	DIODE SCHOTTKY	40V 1A SOD123W	PMEG40T10ERX
D2	1	BRIDGE RECT 1PHASE	600V 25A GBJ	GBJ2506-F
D3, D5	2	DIODE GEN PURP	DIODE GEN PURP	ES1J
D4	1	DIODE SCHOTTKY	DIODE SCHOTTKY	DB2S31000L
Q1, Q4	2	MOSFET N-CH 650V	MOSFET N-CH 650V	IPW60R017C7XKSA1
Q2, Q3	2	TP65H035G4WS	TP65H035G4WS	TP65H035G4WS
U1	1	RELAY GEN PURPOSE SPST 30A 12V	RELAY GEN PURPOSE SPST 30A 12V	JTN1AS-PA-F-DC12V
U2	1	IC CAPACITOR DISCHARGE 8SO	IC CAPACITOR DISCHARGE 8SO	CAP019DG-TL
U3, U4	2	DGTL ISO 2.5KV GATE DRVR 16SOIC	DGTL ISO 2.5KV GATE DRVR 16SOIC	SI8273BBD-IS1R
FB1, FB2	2	FERRITE BEAD 220 OHM	0603 1LN	MMZ1608B221CTAH0
R16, R17, R29, R30	4	RES SMD 100K OHM	1% 1/10W 0603	RC0603FR-07100KL
R33, R36	2	RES SMD 15 OHM	5% 1/10W 0603	RC0603JR-0715RL
R22, R25, R34, R37	4	RES SMD 10K OHM	1% 1/10W 0603	RC0603FR-0710KL
R19, R20, R31, R32	4	RES SMD 33 OHM	1% 1/10W 0603	RC0603FR-0733RL
R27	1	RES SMD 33K OHM	1% 1/10W 0603	RC0603FR-0733KL
R21, R24	2	RES SMD 36 OHM	1% 1/10W 0603	RC0603FR-0736RL
R26	1	RES SMD 49.9K OHM	1% 1/10W 0603	RC0603FR-0749K9L

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R2, R11, R12, R18, R23, R28, R35	7	RES SMD 10 OHM	1206 3/4W 5%	SR1206JR-7T10RL
R4, R5, R6, R7, R8, R9	6	RES SMD 37.4K OHM	1% 1/4W 1206	RC1206FR-0737K4L
R10, R15	2	RES SMD 1206	RES SMD 1206	DNP
R13, R14	2	RES 0.004 OHM	1% 3W 2512	PA2512FKE7TOR004E
R1, R3	2	ICL 47 OHM	20% 3A 17.5MM	MF72-047D15
C12, C13, C20, C21	4	CAP CER 100PF	25V NPO 0603	CC0603JRNPO8BN101
C16	1	CAP CER 1UF	25V X5R 0603	CC0603KRX5R8BB105
C11, C14, C15, C22	4	CAP CER 10UF	25V X5R 0805	GRM21BR61E106KA73L
C9, C10	2	CAP CER 10000PF	630V X7R 1206	CC1206KKX7RZBB103
C17, C18, C19, C23	4	CAP CER 22UF	25V X6S 1206	GRM31CC81E226ME11L
C1, C8	2	CAP CER SMD 1206	CAP CER SMD 1206	DNP
CY1, CY2	2	CAP FILM 4700PF	20% 630VDC RAD	BFC233820472
C2, C3	2	CAP FILM 0.22UF	10% 310VAC RAD	890334023028
CX1, CX2, CX3	3	CAP FILM 1.5UF	20% 630VDC RAD	R463N415040N1M
C4, C5, C6, C7	4	CAP ALUM 470UF	20% 450V SNAP	ALC10A471DF450
CMC1, CMC2	2	CMC_42X27MM_SM	CMC_42X27MM_SM	T60405-R6128-X225
L1	1	DM-77071B	DM-77071B	CWS-1SN-12606 - CWS
PFC_CHOKE	1	PFC_4KW INDUCTOR	PFC_4KW INDUCTOR	T91880B - SUMIDA
standoff for pcb board	11	stand off (nylon 1/2)	stand off (nylon 1/2)	1902C
screw for stand off for pcb board	11	machine screw (ss 1/2)	machine screw (ss 1/2)	9902
screw for FAN to Heatsink	4	machine screw (ss 5/8)	machine screw (ss 5/8)	29316
Control Card				
R49	1	0R	RES0603	RC0603JR-070RL
R7, R22, R52, R60	4	1Meg	RES0603	RC0603FR-071ML
R21, R54, R62	3	1k	RES0603	RC0603FR-071KL
C14	1	1n	CAP0603	C0603C102K3RACTU
C12	1	1n, 10V	CAP0603	
C8, C37	2	1n, 25V	CAP0603	C0603C102K3RACTU

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C1	1	1n5, 10V	CAP0603	C0603C152J8RACTU
C21, C22, C23, C24, C36, C39, C40, C45	8	1u, 25V	CAP0603	C0603C105K3RACTU
C4	1	4u7, 10V	CAP0603	CC0603MRX5R6BB475
R8, R23	2	5k1	RES0603	RC0603FR-075K1L
R26, R42, R44, R51	4	10k	RES0603	RC0603FR-0710KL
C28, C32, C38	3	10n, 25V	CAP0603	C0603C103J3GACTU
C34, C35	2	10n, 630V	CAP1206	CC1206KKX7RZBB103
C15, C16, C17, C18, C19, C20, C29, C30, C31, C41, C42, C43, C44	13	10u, 25V	CAP0805	C0805C106K3PAC7800
R48, R58, R65	3	12k1	RES0603	RC0603FR-0712K1L
R4	1	16k	RES0603	RC0603FR-0716KL
R45	1	22k1	RES0603	RC0603FR-0722K1L
C33	1	22n, 25V	CAP0603	C0603C223K3RACTU
C7, C10	2	22p, 25V	CAP0603	C0603C220K3GACTU
C26, C27	2	22u, 25V	CAP1206	GRM31CC81E226ME11L
R53, R61, R63	3	24k9	RES0603	RC0603FR-0724K9L
R6, R24	2	30k	RES0603	RC0603FR-0730KL
R2	1	33k	RES0603	RC0603FR-0733KL
R39, R64	2	39k2	RES0603	RC0603FR-0739K2L
R25	1	40k2	RES0603	RC0603FR-0740K2L
R46, R56	2	48k7	RES0603	RC0603FR-0748K7L
R36, R40	2	49R9	RES0603	RC0603FR-0749R9L
R50, R59	2	49k9	RES0603	RC0603FR-0749K9L
R16, R55	2	61k9	RES0603	RC0603FR-0761K9L
R20, R37	2	100k	RES0603	RC0603FR-07100KL
C2, C5, C6, C9, C11, C13	6	100p, 25V	CAP0603	C0603C101J3GACTU
R57	1	124k	RES0603	RC0603FR-07124KL
R47	1	220k	RES0603	RC0603FR-07220KL
R1	1	330R	RES0603	RC0603JR-07330RL
R43	1	470R	RES0603	RC0603JR-07470RL

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R9, R10, R11, R12, R13, R14, R17, R18, R19, R28, R29, R30, R33, R34, R35	15	470k	RES1206	RC1206FR-07470KL
C3	1	560n, 10V	CAP0603	C0603C564K8PACTU
T1	1	750316413	750314352_750314352	750316413
L1	1	74438323047	INDUCTOR_SMD1008	74438323047
D1, D9, D10, D11	4	DB2S31000L	DIODE_SSMINI2	DB2S31000L
D2	1	DB3X313N0L	DIODE_CC_SOT23	DB3X313N0L
CMC1, CMC2	2	CMC_ACT45	CMC_ACT45	CMC_ACT45
C25	1	APXG160ARA221MF80G	APXG160ARA221MF80G	APXG160ARA221MF80G
Q1	1	BSS138N	BSS138-7-F	BSS138NH6327XTSA2
X1, X2, X3, X4, X5	5	5P_HEADER_2MM	5P_HEADER_2MM	TMM-105-01-L-S-RA
Z1	1	CZRU52C4V7	CZRU52C4V7	CZRU52C4V7
D3, D4, D5, D6, D7, D8	6	ES1J	DIODE_DO214	ES1J
U9	1	FODM8801A	FODM8801A_MINIFLAT04	FODM8801A
U13, U14	2	LDK320M-R	LDK320M_SOT23-5L	LDK320M-R
U4	1	LMV761MF	MAX9030	LMV761MF
FB1	1	MMZ1608B601	RES0603	MMZ1608B601
U10	1	NCP432BISNT	TL431	NCP432BISNT
U11	1	NCP1063AD060R	NCP1063_SO16	NCP1063AD060R
R15	1	Rdc: 1.8k	RES0603	RC0603JR-071K8L
R3	1	Rdt1: 2.61k	RES0603	RC0603FR-072K61L
R5	1	Rdt2: 3.57k	RES0603	RC0603FR-073K57L
R41	1	Rlocurr: 20k	RES0603	RC0603FR-0720KL
R27	1	Rzc: 1.21k	RES0603	AC0603FR-071K21L
Z2	1	SMAJ170A	ZENER_DO214AC	SMAJ170A
Z3	1	SMAZ16-13-F	ZENER_DO214AC	SMAZ16-13-F
U6	1	SN74AC04PWR	SN74AC04_PW	SN74AC04PWR
U7, U8	2	SN74AC08PWR	SN74AC08_PW	SN74AC08PWR
U5	1	SN74AC32PWR	SN74AC32_PW	SN74AC32PWR
Q2, Q3	2	SSM3J334R	PMOS_SOT23	SSM3J334R,LF
U2, U12	2	TS393IDT	LM293_SO8	TS393IDT
U3	1	TSX712IYDT	LMX58_DT	TSX712IYDT
U1	1	UCC28180_SO8	UCC28180_SO8	UCC28180DR