

TDTP4000W066C-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number
D3, D4	2		DIODE-DO-214AC	ES1J
LED1, LED2, LED3, LED4	4		LEDCHIP-LED0805	SML-211UTT86
TP1, TP2, TP3, TP4, TP5, TP6, TP9, TP10, TP11, TP12, TP13, TP14	12		TESTPOINT-KEYSTONE5015	5015
C2, C5, C8, C9, C15, C16, C17, C18, C19, C20, C21, C24, C27, C30, C31, C32, C33, C35, C37, C39, C42, C44, C50, C52, C53, C54, C55, C56, C60, C73	30	.1u	C-EUC0603	C0603C104J3RACTU
R59, R71	2	0	R-US_R0603	RCS06030000Z0EA
R72	1	0	R-US_R0805	RC0805JR-070RL
R9, R11, R12, R14, R29, R30	6	1.1M	R-US_R1210	KTR25JZPF1104
D1	1	1N4148	DIODE-SOD123	1N4148W-E3-18
R6	1	1k	R-US_R0805	ERJ-6ENF1001V
C26, C28	2	1n	C-EUC0805	CC0805KRX7R9BB102
C13, C45, C57, C58, C69, C80	6	1u	C-EUC0603	TMK107B7105KA-T
C63, C64, C65, C66	4	1u	C-USC0603	TMK107B7105KA-T
R34	1	100	R-US_R0603	RC0603FR-07100RL
R53	1	2.1k	R-US_R0805	RC0805FR-072K1L
R48	1	2.2M	R-US_R0805	RMCF0805JT2M20

March 27, 2020

Tdttp4000w066c_v02

TDTP4000W066C-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number
C59	1	2.2u	C-EUC1206	CL31B225KAHNNNE
R46	1	2K	R-US_R0805	ERJ-6ENF2001V
R38	1	2k	R-US_R0805	ERJ-6ENF2001V
R25, R27, R35, R36	4	3.3K .1%	R-US_R0805	ERA-6AEB332V
C1	1	3.3n	C-EUC0805	C0805C332K5RACTU
R52	1	4.7k	R-US_R0805	RC0805FR-074K7L
C36, C43, C46	3	4.7u	C-EUC1206	CL31B475KBHNNNE
R_CS	1	4m	RES_CSSH2728	CSSH2728FT4L00
R58	1	5.1k	R-US_R1206	RC1206FR-075K1L
R49	1	5k	R-US_R0805	RC0805FR-075K1L
R13	1	7.5K	R-US_R0805	ERJ-6ENF7501V
R16, R17, R31, R32	4	7.5k	R-US_R0805	RN73C2A7K5BTDF
R19	1	9.09k	R-US_R0805	RC0805FR-079K09L
R1, R3	2	10	R-US_R0805	ERJ-6GEYJ100V
R22, R23, R40, R43, R44, R55	6	10	R-US_R1206	ERJ-8ENF10R0V
R39	1	392	R-US_R0603	RC0603FR-07392RL
R2, R4, R7, R8, R10, R15, R37, R45, R47, R50, R57	11	10k	R-US_R0805	ERJ-6ENF1002V
C14, C22, C23	3	10n	C-EUC1206	SMK316B7103KF-T
C78, C79	2	10p	C-EUC0603	C0603C100K3GACTU
C86	1	10u	C-EUC0805	GRM21BR61E106KA73L
C3, C4, C6, C10, C34, C38	6	10u	C-EUC1206	12063D106KAT2A
R24	1	12k(65k for 8274)	R-US_R0805	RC0805FR-0712KL
R28, R51	2	15	R-US_R1210	RMCF1210FT15R0
R18, R21, R54	3	15k	R-US_R0805	RC0805FR-0715KL
R42, R70	2	22	R-US_R0805	ERJ-6GEYJ220V
C61	1	22n	C-EUC0805	C2012C0G1V223J060AC
C40, C41	2	22u	C-EUC1206	CL31X226KAHN3NE
R60, R61, R62, R63, R64, R65	6	37.4k	R-US_R1206	RC1206FR-0737K4L
FB1, FB2	2	220	FBO603	MMZ1608B221
C74, C75	2	47p	C-EUC1206	CC1206JKNPOZBN470

March 27, 2020

Tdtp4000w066c_v02

TDTP4000W066C-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number
U12	1	74AUP2G14GW	74AUP2G14GW	NC7WZ14P6X
U5	1	74LVC1G14GW	74LVC1G14GW	NC7SZ14M5X
IC4	1	74LVC1G17GW	74LVC1G17GW	SN74LVC1G17DBVR
R26, R33	2	100k	R-US_R0805	ERJ-6ENF1003V
C25	1	100p	C-EUC0603	06035A101FAT2A
R20	1	165K	R-US_R0805	ERJ-6ENF1653V
C11, C51	2	220p	C-EUC0805	CC0805KRX7R9BB221
R75, R76, R77, R78	4	680	R-US_R0805	RC0805FR-07680RL
LCM1, LCM2	2	CMC_WURTH_744229	CMC_WURTH_744229	744229
F2	1	FUSE-SMM-10A	FUSE-SMM	0463015.ER
IC2	1	INA826R	INA826R	INA826AID
JP1, JP2, JP3	3	JUMPER_S1621-46R	JUMPER_S1621-46R	S1621-46R
U14	1	LT1719	LT1719	LT1719CS6#TRMPBF
IC3	1	MCP1501T-18E/CHY	MCP1501T-18E/CHY	MCP1501T-18E/CHY
U4, U16	2	MCP6001T-E/OT	MCP6001T-E/OT	MCP6001T-E/OT
CONN1	1	MECF-30-01-L-DV-WT	MECF-30-01-L-DV-WT	MECF-30-01-L-DV-WT
U2	1	MIC5259-3.3YD5-TR	MIC5259-3.3YD5-TR	MIC5259-3.3YD5-TR
U8	1	MIC5271YM5-TR	MIC5271YM5-TR	MIC5271YM5-TR
U13	1	CAP200DG	CAP200DG	CAP200DG
Q5	1	NX3008NBK	NX3008NBK	NX3008NBK,215
U1	1	OPA188	OPA188	OPA188AIDBVT
IC1	1	OPA2188	OPA2188	OPA2188AIDR
U11	1	PDS1-S12-S12-M-TR	PDS1-S12-S12-M-TR	PDS1-S12-S12-M-TR
U7	1	SI8230	SI8230	SI8230BB-D-IS1
U6	1	SI8233	SI8233	SI8233BB-D-IS1
U10	1	TPS60403	TPS60403	TPS60403DBVR
U3	1	5V DC-DC converter	V7805-500	TR05S05
	1	DSPIC33CK256MP506 DIGITAL POWER	DSPIC33CK256MP506 DIGITAL POWER	MA330048
stand off (nylon 1/2)	9	stand off (nylon 1/2)	stand off (nylon 1/2)	1902C
machine screw (ss 1/2)	9	machine screw (ss 1/2)	machine screw (ss 1/2)	9902
Thermal pad for Q2, Q3, Q1, Q4	4	Thermal pad for Q2, Q3, Q1, Q4	Thermal pad for Q2, Q3, Q1, Q4	4169G
screws for FETs to HS (Q2, Q3)	2	screws for FETs to HS (Q2, Q3)	screws for FETs to HS (Q2, Q3)	6/32
D2	1		GBJ2506	GBJ2506-BP

March 27, 2020

Tdttp4000w066c_v02

TDTP4000W066C-KIT Bill of Materials (BOM)

Designator	Qty	Value	Description	Part Number
SV2, J2	2		MA04-1	961104-6404-AR
J1	1		PJ-002AH	PJ-002AH
TP7, TP8	2		TEKTRONIX-PCB	131-4353-00
CX1, CX2, CX3	3	1.5u/310Vac	155MKP275KG	890334026030cs
CN2	1	2PIN_9.53MM	2PIN_9.53MM	20020705-M021B01LF
L1	1	3.9mH	CMC_42X27MM_SM	T60405-R6128-X225
CN1	1	3PIN_9.53MM	3PIN_9.53MM	T70343500000G
CY1, CY2	2	4.7n	VY2_CAP_SAFETY	B32021A3472M
L4	1	7.2mH	CMC_42X27MM	T60405-R6128-X230
NTC	1	10k@25C	R-US_0204/5	B57703M103G40
C47	1	10uH	FILM-CAP-C4ATGB_5100	890334026030cs
CX4	1	22n	ECQ-U2A474ML22N	PME271M522MR30
F1	1	30A	SH32	01020078H
R69	1	100k	R-US_R0603	DNI
C7, C29, C81, C85	4	100u/16v	ELE_CAP_D5MM_P2MM	UKL1C101KPDANA
C12	1	100u/25V	CPOL-USE2.5-7	ESK107M025AC3AA
C49, C62, C67, C72	4	470uF	ELE_CAP_D35MM_P10MM	ELXS451VSN471MA45S
L2, L3	2	DM-TOROID770711	DM-TOROID770711	CWS-1SN-12606
K1	1	G8P-1A4P-DC12	G8P-1A4P	JTN1AS-PA-F-DC12V
L6	1	HF-TOROID	HF-TOROID	CWS-1SN-12554
HS1	1	HS-OMNI-41-75	HS-OMNI-41-75	OMNI-UNI-41-75
R5	1	MS35_10015	MS35_10015	MS32 10015-B
L5	1	PFC_4KW	PFC_4KW	019-8598-00R
Q1, Q4	2	IPW60R017C7XKSA1	IPW60R017C7XKSA1	IPW60R017C7XKSA1
Q2, Q3	2	TP65H035G4WS	TP65H035G4WS	TP65H035G4WS
power adaptor	1	power adaptor	power adaptor	SMI6B-12-4-P5R