

TDADP-SIL-USBC-65W-RD Bill of Materials (BOM)

Designator	Designator	Manufacturer	Part Number
Horizontal Board (USB Type-C Connector)			
BRIDGE RECT 1PHASE 1KV 4A Z4-D	BR1, BR2	Comchip Technology	Z4DGP410L-HF
CAP CER 220NF X2	C1		W12.5H10T6
CAP ALUM 560UF 20% 25V T/H	C5, C6, C20	YMIN	SPE1EM681E160L
CAP CER 0.1UF 50V X7R 0603	C7,	Samsung Electro-Mechanics	CL10B104KB8NNNC
CAP CER 1UF 25V X7R 0603	C28	Samsung Electro-Mechanics	CL10B105KA8NNNC
CAP CER 3300PF 25V X7R 0603	C31	AVX Corporation	06033C332KAT2A
CAP CER 0.047UF 25V X7R 0603	C32	AVX Corporation	06033C473KAT2A
CAP CER 8200PF 50V X7R 0603	C46	KEMET	C0603C822K5RACTU
CAP CER 10UF 25V X7R 1206,	C8	TDK Corporation	C3216X7R1E106K160AB
CAP CER 150PF 200V NPO 0805	C10	Yageo	CC0805JRNPOABN151
CAP CER 10UF 25V X5R 0603	C30, C35	Murata Electronics	GRM188R61E106MA73 D
CAP CER 0.1UF 50V X7R 0603	C34, C37	Samsung Electro-Mechanics	CL10B104KB8NNNC
CAP CER 270PF 50V X7R 0603	C36, C38, C39, C42	Yageo	CC0603KRX7R9BB271
CAP CER 1000PF 25V X7R 0603	C40	KEMET	C0603C102K3RACTU
CAP CER 1UF 35V X7R 0603	C41, C48	TDK Corporation	CGA3E1X7R1V105K080A C
CAP CER 0.033UF 50V X7R 0603	C43, C44, C47	Yageo	CC0603KRX7R9BB333
CAP CER 0.022UF 50V X7R 0603	C45	Yageo	CC0603KRX7R9BB223
	C49		
FUSE BOARD MNT 3A 250VAC 125VDC	F1	Eaton - Electronics Division	TR2/1025TD3-R
USB JACK, C TYPE, POWER ONLY, 6	J1	CUI Devices	UJC-HP-3-SMT-TR
	L2		
PTNG 120V N-FET PQFN56 (4mohm)	Q1	ON Semiconductor	FDMS4D0N12C
MOSFET N-CH 25V 124A 8PQFN	Q4	ON Semiconductor	FDMC2D8N025S
DNI RES 1206, DNI RES 1206, ,	R1, R2		
RES SMD 470 OHM 1% 1/10W 0603	R8,	Yageo	RC0603FR-07470RL
RES 0 OHM JUMPER 1/10W 0603	R9	Stackpole Electronics Inc	RMCF0603ZTOR00
RES SMD 0 OHM 1/10W 0603	R10	Yageo	RC0603JR-070RL
RES SMD 84.5K OHM 1% 1/10W 0603	R14	Yageo	RC0603FR-0784K5L
RES SMD 10K OHM 1% 1/10W 0603	R23	Yageo	RC0603FR-0710KL
DNI	R40		
RES SMD 3.9K OHM 1% 1/10W 0603	R41	Yageo	RC0603FR-073K9L
RES SMD 1.5K OHM 1% 1/10W 0603	R43	Bourns Inc.	CR0603-FX-1501ELF
RES SMD 7.5K OHM 1% 1/10W 0603	R46	Yageo	AC0603FR-077K5L
RES SMD 47 OHM 1% 1/10W 0603	R20, R36	Yageo	RC0603FR-0747RL
RES 0.005 OHM 1% 1W 1206	R25	Bourns Inc.	CFN1206-FX-R005ELF

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RES SMD 1K OHM 1% 1/10W 0603	R35	Yageo	RC0603FR-071KL
RES SMD 1M OHM 1% 1/10W 0603	R37	Yageo	RC0603FR-071ML
RES SMD 5.1K OHM 1% 1/10W 0603	R38	Yageo	RC0603FR-075K1L
RES SMD 10K OHM 1% 1/10W 0603	R39	Yageo	RC0603FR-0710KL
RES SMD 4.7K OHM 1% 1/10W 0603	R42	Yageo	RC0603FR-074K7L
RES SMD 47K OHM 1% 1/10W 0603	R44	Yageo	AC0603FR-0747KL
NTC thermistor 0603 5%	RT3	Vishay Dale	NTHS0603N17N2003JE
VARISTOR 430V 250A 2SMD NO LEAD	RV1	Littelfuse Inc.	V430CH8
PC TEST POINT NATURAL	TP1, TP2	TE Connectivity AMP Connectors	RCU-0C
WT6633P USB PD Controller QFN16	U2	Weltrend	
FAST TURN-OFF INTELLIGENT RECTIF	U3	Monolithic Power Systems Inc.	MP6908AGJ-P
OPTOISO 5KV TRANSISTOR SO6L	U4	Toshiba Semiconductor	TLP383(D4BLTL,E
IC VREF SHUNT 36V 1% SOT23-3	U5	Texas Instruments	ATL431AIDBZR
DIODE ZENER 24V 500MW SOD123,	Z1	Diodes Incorporated	DDZ24C-7,
DIODE ZENER 91V 500MW SOD123	Z3	ON Semiconductor	MMSZ5270BT1G
CAP CER 2.2nF 25V X7R 0603	C50	Murata Electronics	
Vertical Board			
CAP ALUM 33UF 20% 400V T/H	C2, C3, C26, C29	YMIN	KCX(33UF-10X18P5)
CAP CER 4.7UF 25V X6S 0603	C11	Murata Electronics	GRM188C81E475KE11D
CAP CER 10000PF 25V X7R 0603	C12	KEMET	C0603C103K3RACTU
CAP CER 10000PF 25V X7R 0603	C14	Samsung Electro-Mechanics	CL10B103KA8NNNC
CAP CER 1000PF 16V X7R 0603	C15	Yageo	CC0603KRX7R7BB102
CAP CER 10000PF 25V X7R 0603	C16	Samsung Electro-Mechanics	CL10B103KA8NNNC
CAP CER 39PF 50V C0G/NPO 0603	C17	KEMET	C0603C390J5GACTU
CAP CER 10000PF 25V X7R 0603	C18	Samsung Electro-Mechanics	CL10B103KA8NNNC
CAP CER 1UF 35V X7R 0603	C19	Taiyo Yuden	GMK107AB7105KAHT
CAP CER 100PF 200V NPO 0603	C24	Yageo	CC0603JRNPOABN101
CAP CER 100PF 200V NPO 0603	C25	Yageo	CC0603JRNPOABN101
CAP CER 150PF 16V X7R 0603	C27	Würth Elektronik	8.85012206029E+11
CAP CER 10000PF 630V X7R 1206,	C9	KEMET	C1206C103KBRACTU
CAP CER 4700PF 630V X7R 1206,	C13	TDK Corporation	C3216X7R2J472K115AA
CAP CER 10000PF 630V X7R 1206,	C22	KEMET	C1206C103KBRACTU
CAP CER 10UF 35V X7R 1206	C23	Samsung Electro-Mechanics	CL31B106KLHNNNE
CAP ALUM 68UF 80V 20% T/H	C21	YMIN	LKMC0902A190MF
CAP ALUM 47UF 20% 16V RADIAL	C33	Rubycon	25YXJ47MTA5X11
DIODE GEN PURP 1KV 1A SOD123FA	D1, D3	ON Semiconductor	US1MFA

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DIODE ZENER 4.7V 200MW	D2	ON Semiconductor	MM3Z4V7B
DIODE ZENER 56V 200MW SOD323F	Z2	ON Semiconductor	MM3Z56VB
	D4		
	D8		
50NS 1A 300V HIGH EFFICIENT RECO	D6, D7	Taiwan Semiconductor Corporation	HS1FFL
DIODE SCHOTTKY 100V 250MA SOD323	D10	Nexperia USA Inc.	BAT46WJ,115
	FB1, FB2		
CMC 9 mH 10X15	L1	CUSTOM_10X15	
MOSFET 2N-CH 60V 0.35A	Q3	Diodes Incorporated	DMN61D9UDW-7
RES SMD 24.9 OHM 1% 3/4W 1206,	R6	Vishay Dale	CRCW120624R9FKEAHP
RES 0.18 OHM 1% 1/4W 1206	R16	Yageo,	RL1206FR-070R18L
RES 0.16 OHM 1% 1/2W 1206,	R17	TE Connectivity Passive Product	RLP73K2BR16FTDF
RES SMD 24.9 OHM 1% 3/4W 1206	R24	Vishay Dale	CRCW120624R9FKEAHP
RES SMD 22M OHM 1% 1/4W 0805,	R3, R5, R7, R30	Stackpole Electronics Inc	RMCF0805FT22M0
DNI RES 0805,	R4		
RES SMD 475K OHM 1% 1/10W 0603	R12	Yageo	RC0603FR-07475KL
RES SMD 270 OHM 1/10W 0603	R13	Yageo	
RES SMD 10 OHM 1% 1/10W 0603	R15	Yageo	RC0603FR-0710RL
RES SMD 14K OHM 0.1% 1/10W 0603	R18	Yageo	RT0603BRD0714KL
RES 120K OHM 1% 1/10W 0603	R19	Stackpole Electronics Inc	RMCF0603FT120K
RES 100K OHM 1% 1/10W 0603	R21	Stackpole Electronics Inc	RMCF0603FT100K
RES SMD 10K OHM 1% 1/10W 0603	R22	Yageo	RC0603FR-0710KL
RES SMD 4.7 OHM 1% 1/10W 0603	R26	Yageo	RC0603FR-074R7L
RES SMD 16.2K OHM 1% 1/10W 0603	R27	Yageo	RC0603FR-0716K2L
RES SMD 100 OHM 1% 1/10W 0603	R28	Yageo	RC0603FR-07100RL
RES SMD 47 OHM 1% 1/10W 0603	R29	Yageo	RMCF0603FT47R0
RES SMD 3.3K OHM 1% 1/10W 0603	R34	Yageo	RC0603FR-073K3L
DNI	R47		
RES SMD 825K OHM 1% 1/10W 0603	R48		
RES SMD 274K OHM 1% 1/10W 0603	R49		
RES SMD 22K OHM 1% 1/10W 0603	R11	Yageo	RC0603FR-0722KL
RES SMD 0 OHM 1/10W 0603	R31	Yageo	RC0603JR-070RL
RES SMD 619K OHM 1% 1/16W 0402,	R32,	Yageo	RC0402FR-07619KL
RES SMD 43.2K OHM 1% 1/16W 0402,	R33,	Yageo	RC0402FR-0743K2L
	R45	Yageo	
THERM NTC 100KOHM 4485K 0402	RT2	Murata Electronics	NCP15WL104E03RC
TRANSFORMER RM 8	T1	TBD	YT-0803
Flyback PWM Controller with Integrated Active Clamp Circuit	U1	Silanna Semiconductor	SZ1130
DIODE, 800V, 200mA	D12	Panasonic	DA2JF8100L

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GaN Daughter Board			
650V, 240mΩ, SuperGaN FET, PQFN88	Transphorm	TP65H300G4LSG	Q2