

TDADP-SIL-USBC-45W-RD Bill of Materials (BOM)

Designator	Designator	Manufacturer	Part Number
Main Board			
C1	No components	---	---
C2	No components	---	---
C3	0.47uF, 450V, X7T, 1812	TDK	CGA8N4X7T2W474M230KA
C4	4.7uF, 450V, KCX, 6.3x12mm	Ymin	KCX Series
C5	330pF, NPO, 16V, 0402	AVX	0402YA331JAT2A
C6	10uF, 25V, X7R, 1206	TDK	CGA5L1X7R1E106M160AC
C7	1uF, 25V, X7R, 0603	TDK	C1608X7R1E105K080AB
C8	10uF, 25V, X7R, 1206	TDK	CGA5L1X7R1E106M160AC
C9	0.1uF, 25V, X7R, 0603	AVX	06033C104KAT4A
C10	4.7uF, 10V, X7S, 0603	TDK	C1608X7S1A475M080AC
C11	0.1uF, X7R, 25V, 0402	AVX	04023C104KAT2A
C12	1uF, X7R, 25V, 0603	TDK	C1608X7R1E105K080AB
C13	68nF, X7R, 25V, 0402	TDK	GRM155R71E683KE14D
C14	68nF, X7R, 25V, 0402	TDK	GRM155R71E683KE14D
C15	68nF, X7R, 25V, 0402	TDK	GRM155R71E683KE14D
C16	100pF, NPO, 25V, 0402	Taiyo Yuden	TMK042CG101JC-W
C17	100pF, NPO, 25V, 0402	Taiyo Yuden	TMK042CG101JC-W
C18	1uF, X7R, 25V, 0603	AVX	0603ZC105KAT2A
C19	4.7nF, X7R, 25V, 0402	AVX	04023C472KAT2A
C20	560pF, NPO, 50V, 0402	Yageo	CC0402JRNPO9BN561
C21	560pF, NPO, 50V, 0402	Yageo	CC0402JRNPO9BN561
C22	560pF, NPO, 50V, 0402	Yageo	CC0402JRNPO9BN561
C23	560pF, NPO, 50V, 0402	Yageo	CC0402JRNPO9BN561
C24	No components	---	---
C25	100pF, NPO, 25V, 0402	Taiyo Yuden	TMK042CG101JC-W
C26	12pF, NPO, 25V, 0402	AVX	04023A120KAT2A
C27	10nF, X7R, 50V, 0402	Yageo	C0402C103K5RECAUTO
C28	No components	---	---
C29	2.2nF, 500V, NPO, 1206	TDK	CGJ5H4C0G2H222J115AA
C30	0.1uF, X7R, 25V, 0603	AVX	06033C104KAT4A
C31	10uF, 25V, X7R, 1206	TDK	CGA5L1X7R1E106M160AC
C32	10uF, 25V, X7R, 1206	TDK	CGA5L1X7R1E106M160AC
C33	2.2uF, 100V, X7R, 1206	AVX	12061C225K4T2A
C34	2.2uF, 100V, X7R, 1206	AVX	12061C225K4T2A
C35	2.2uF, 100V, X7R, 1206	AVX	12061C225K4T2A
C36	68nF, X7R, 25V, 0603	AVX	06033C683KAT2A
C37	47nF, 500V, X7R, 1206	TDK	GRM31CR72H473KW09L
C38	No components	---	---
CE1	15uF, 450V, Ymin, D10X13.5mm	Ymin	KCX Series
CE2	22uF, 450V, Ymin, D10x17mm	Ymin	KCX Series
CE3	10uF, 450V, Ymin, D8x15mm	Ymin	KCX Series
CE4	10uF, 450V, Ymin, D8x15mm	Ymin	KCX Series
CE5	22uF, 450V, Ymin, D10x17mm	Ymin	KCX Series
CE6	820uF, 25V, Ymin, D8x16.5mm	Ymin	VPX Series

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CE7	470uF, 25V, Ymin, D6.3x13mm	Ymin	VPX Series
CX1	220nF, 275V, Pitch 7.5mm, WQC	WQC	---
CY1	470pF, Y5P	TRX	TMY1471K
CY2	220pF, Y5P	TRX	TBY2221KB
CY3	220pF, Y5P	TRX	TBY2221KB
D1	RSFML, SOD123	Taiwan Semiconductor	RSFML RVG
D2	RSFML, SOD123	Taiwan Semiconductor	RSFML RVG
D3	P10L150SP, TO-277	PFC Device	P10L150SP
D4	BAS16HT1G, SOD323	On-Semi	BAS16HT1G
D5	BAS20HT1G, SOD323	On-Semi	BAS20HT1G
D6	BAS20HT1G, SOD323	On-Semi	BAS20HT1G
D7	ES1JFL	On-Semi	ES1JFL
D8	S1MWF-7	DIODES	S1MWF-7
D9	ZHCS400TA	DIODES	ZHCS400TA
D10	ES1JFL	On-Semi	ES1JFL
D11	BAS20HT1G, SOD323	On-Semi	BAS20HT1G
DB1	HBS610	Dyelec	HBS610
F1	3.15A, 250V, 5ET, Slow blow	Hollyfuse	RST 3.15-BULK
FB1	MMZ1608S800AT	TDK	MMZ1608S800AT
FB2	HF70 T8x4x4	TDK	HF70 T8x4x4
L1	ACME K12, T9x5x3C	Createk	SPEC-DXT009078-A
L2	ACME A10, T10x6x5C	Createk	SPEC-DXT010079-A
L3	22uH	Bourns	SRR4528A-220M
L4	10R, 1206, 5%, 1/4W	---	---
NTC1	Jumper wire, D0.5mm, L12mm, P5mm	---	---
NTC2	100K	MuRata	NCP18WF104F12RB
PCB	Main Board, 2oz, FR4, 38x48mm, T1mm	---	---
Q1	HGN093N12SL	Huntek	HGN093N12SL
Q2	BSZ0902NS, TSDSON-8	Infineon	BSZ0902NS
Q3	TP65H480G4JSG, 8x8_PQFN(LS)	Transphorm	TP65H480G4JSG
Q4	BSS123, SOT23	Fairchild	BSS123
R1	1.5K, 0805, 5%, 1/8W	---	---
R2	1.5K, 0805, 5%, 1/8W	---	---
R3	4.7M, 1206, 5%, 1/4W	---	---
R4	4.7M, 1206, 5%, 1/4W	---	---
R5	NC	---	---
R6	300R, 0402, 1%, 1/16W	---	---
R7	0402, Jumper	---	---
R8	NC	---	---
R9	43K, 0402, 1%, 1/16W	---	---
R10	510R, 0603, 5%, 1/10W	---	---
R11	4.7K, 0402, 5%, 1/16W	---	---
R12	1M, 0402, 5%, 1/16W	---	---
R13	100K, 0402, 1%, 1/16W	---	---
R14	10K, 0402, 5%, 1/16W	---	---
R15	47K, 0402, 1%, 1/16W	---	---
R16	0805, 5mR, 1/2W	Panasonic	ERJ-6LWFR005V

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TDADP-TPH-ON-USBC-45W-RD_0v1



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Designator	Designator	Manufacturer	Part Number
R17	22R, 0402, 5%, 1/16W	---	---
R18	22R, 0402, 5%, 1/16W	---	---
R19	5.1R, 0402, 5%, 1/16W	---	---
R20	5.1R, 0402, 5%, 1/16W	---	---
R21	4.7K, 0402, 1%, 1/16W	---	---
R22	47K, 0402, 1%, 1/16W	---	---
R23	0805, 1K	Panasonic	ERJ-P06F1001V
R24	5.1K, 0402, 5%, 1/16W	---	---
R25	300R, 0603, 5%, 1/10W	---	---
R26	5.6K, 0402, 1%, 1/16W	---	---
R27	82K, 0402, 1%, 1/16W	---	---
R28	680K, 0805, 1%, 1/8W	---	---
R29	100R, 0402, 1%, 1/16W	---	---
R30	0.62R, 1206, 1%, 1/2W	Panasonic	ERJ-8BQFR43V
R31	2.4K, 0402, 1%, 1/16W	---	---
R32	9.1K, 0603, 1%, 1/10W	---	---
R33	820R, 0402, 1%, 1/16W	---	---
R34	1.3M, 1206, 5%, 1/4W	---	---
R35	0.62R, 1206, 1%, 1/2W	Panasonic	ERJ-8BQFR43V
R36	NC	---	---
R37	100K, 0603, 5%, 1/10W	---	---
R38	300R Ferrite Bead, 0603	TDK	MMZ1608S301AT
R39	300R Ferrite Bead, 0603	TDK	MMZ1608S301AT
R40	1.5K, 0805, 5%, 1/8W	---	---
R41	0R, 0805, 5%, 1/8W	---	---
T1	RM8 Transformer	---	---
U1	Opto-Coupler-SMD5KV	CT Micro	CT1019
U2	MP6908A, SOT2306	MPS	MP6908A
U3	PD controller, 4x4mm	Weltrend	WT6633P
U4	NCP1342AMDCDD1R2G	On-Semi	NCP1342AMDCDD1R2G
VDR1	MOV-07D511K	VDR	MOV-07D511K
ZD5	Zener Diode, 12V, 2%, Fairchild	DIODES	MM3Z12VB
Power Delivery (PD) Board			
CN1	USB Type-C connector, 16P	SHENZHEN HONGSEN PRECISION ELECTTRONICS	USBC-202N03A03
PCB	FR4, 1.0mm, 2oz, 7.3x15.7mm, 4 layers, R01	---	---
ZD1	TVS, 24V, SOD323	KF	GBLC24
ZD2	TVS, 24V, SOD323	KF	GBLC24
ZD3	TVS, 5V, SOD323	KF	ESD3Z5V0
ZD4	TVS, 5V, SOD323	KF	ESD3Z5V0