

## TIDA-01622 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.33uF	C1608X7R1H334K080AC	TDK	CAP, CERM, 0.33 $\mu$ F, 50 V, +/- 10%, X7R, 0603	0603
C2, C3, C4	3	270uF	25SEK270M	Panasonic	CAP ALUM POLY 270UF 20% 25V T/H	D6.3xH7mm
C5, C6	2	33uF	C3216X5R1E336M160AC	TDK	CAP, CERM, 33 $\mu$ F, 25 V, +/- 20%, X5R, 1206	1206
C7, C8	2	10uF	CL31B106KBHNNNE	Samsung	CAP, CERM, 10 $\mu$ F, 50 V, +/- 10%, X7R, 1206	1206
C9	1	220pF	C1608C0G2E221J080AA	TDK	CAP, CERM, 220 pF, 250 V, +/- 5%, C0G/NP0, 0603	0603
C10	1	6.8uF	C2012X5R1E685K125AC	TDK	CAP, CERM, 6.8 $\mu$ F, 25 V, +/- 10%, X5R, 0805	0805
C11	1	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 $\mu$ F, 25 V, +/- 10%, X7R, 0603	0603
C12, C13	2	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 $\mu$ F, 50 V, +/- 10%, X7R, 0805	0805
C14	1	0.22uF	GRM188R71A224KA01D	MuRata	CAP, CERM, 0.22 $\mu$ F, 10 V, +/- 10%, X7R, 0603	0603
C15, C16, C17	3	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 $\mu$ F, 50 V, +/- 10%, X7R, 0603	0603
C19	1	560pF	GRM155R71H561KA01D	MuRata	CAP, CERM, 560 pF, 50 V, +/- 10%, X7R, 0402	0402
D1	1	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
J1	1		632 723 300 011	Wurth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
L2	1	0.68uH	74479136	Wurth Elektronik	Inductor, Multilayer, Ferrite, 0.68 $\mu$ H, 0.19 A, 0.67 ohm, 1206	
L1	1	1uH	7447462010	Wurth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 1 $\mu$ H, 8 A, 0.006 ohm, TH	
Q1	1	30V	CSD17578Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 14 A, DNH0008A (VSONP-8)	DNH0008A
Q SR1	1	150V	BSC093N15NS5	Infineon Technologies	MOSFET, N-CH, 150 V, 87 A, PG-TDSON-8	PG-TDSON-8
R1	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
R2	1	24.9	RC0603FR-0724R9L	Yageo America	RES, 24.9, 1%, 0.1 W, 0603	0603
R3	1	22	CRCW120622R0JNEA	Vishay-Dale	RES, 22, 5%, 0.25 W, 1206	1206
R5	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R6	1	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	0603
R7	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R9	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R10	1	75k	CRCW060375KFKEA	Vishay-Dale	RES, 75 k, 1%, 0.1 W, 0603	0603
R11	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R12	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R13	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R14	1	61.9k	CRCW060361K9FKEA	Vishay-Dale	RES, 61.9 k, 1%, 0.1 W, 0603	0603
R15	1	2k	CRCW06032KFKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R16	1	90.9k	CRCW060390K9FKEA	Vishay-Dale	RES, 90.9 k, 1%, 0.1 W, 0603	0603
U1	1		UCC24612-1DBVR	Texas Instruments	UCC24612-1DBV, DBV0005A (SOT-23-5)	DBV0005A
U2	1		TPS25740BRGER	Texas Instruments	USB Type-C and USB PD Source Controller, RGE0024H (VQFN-24)	RGE0024H
U3	1		TPD1E05U06QDPYRQ1	Texas Instruments	Automotive 1-Channel Ultra-Low-Capacitance IEC ESD Protection Diode, DPY0002A (X1SON-2)	DPY0002A