

TIDA-010047 PD Control Board REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C10	1	2.2uF	GRM188R61H225KE11D	MuRata	CAP, CERM, 2.2 μ F, 50 V, +/- 10%, X5R, 0603	0603
C11	1	47uF	GRM21BR60J476ME15L	MuRata	CAP, CERM, 47 μ F, 6.3 V, +/- 20%, X5R, 0805	0805
C18	1	220pF	GRM033R71E221KA01D	MuRata	CAP, CERM, 220 pF, 25 V, +/- 10%, X7R, 0201	0201
C19	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C20	1	0.1uF	885012205037	Wurth Elektronik	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0402	0402
C21	1	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 μ F, 50 V, +/- 10%, X7R, 0603	0603
C22, C23, C26	3	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 μ F, 10 V, +/- 20%, X5R, 0402	0402
C24, C25	2	10uF	GRM188R61E106MA73D	MuRata	CAP, CERM, 10 μ F, 25 V, +/- 20%, X5R, 0603	0603
C27	1	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0402	0402
D4	1	24V	PESD24VS2UT,215	Nexperia	Diode, TVS, Uni, 24 V, 70 Vc, SOT-23	SOT-23
D9	1	White	LW QH8G-Q2S2-3K5L-1	OSRAM	LED, White, SMD	0402, White
D10	1	30V	MBR230LSFT1G	ON Semiconductor	Diode, Schottky, 30 V, 2 A, AEC-Q101, SOD-123FL	SOD-123FL
J3	1		632723300011	Wurth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
L2	1	10uH	74437324100	Wurth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 10 uH, 1.5 A, 0.215 ohm, SMD	4.45x1.8x4.06mm
Q2, Q3, Q4	3	60V	2N7002W-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.115 A, SOT-323	SOT-323
R11, R12, R13	3	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R14	1	8.87k	CRCW04028K87FKED	Vishay-Dale	RES, 8.87 k, 1%, 0.063 W, 0402	0402
R15	1	3.65k	CRCW04023K65FKED	Vishay-Dale	RES, 3.65 k, 1%, 0.063 W, 0402	0402
R16	1	2.20k	CRCW04022K20FKED	Vishay-Dale	RES, 2.20 k, 1%, 0.063 W, 0402	0402
R17	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R36, R37, R46	3	3.83k	CRCW04023K83FKED	Vishay-Dale	RES, 3.83 k, 1%, 0.063 W, 0402	0402
R38, R44, R61	3	10.0k	ERJ-2RKF1002X	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0402	0402
R39, R40, R41, R42	4	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3 k, 5%, 0.063 W, 0402	0402
R45	1	3.83k	CRCW04023K83FKED	Vishay-Dale	RES, 3.83 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R47	1	1.00Meg	RC0201FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.05 W, 0201	0201
R49	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
U1	1		TPS65987DDHRSR	Texas Instruments	USB Type-C and USB PD Controller with Integrated Power Switches, RSH0056E (VQFN-56)	RSH0056E
U3	1		TPS62177DQCR	Texas Instruments	28V, 0.5A Step-Down Converter with SNOOZE Mode, DQC0010A (WSON-10)	DQC0010A
U6	1		MX25L8006EM1I-12G	Macronix International	8Mb, 86MHz, NOR Flash, SOP-8	8-SOP