TIDA-00711 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDA-00711	Any	Printed Circuit Board	
C1, C4, C5	3	4.7uF	GRM32ER71K475ME14L	MuRata	4.7µF ±20% 80V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
C3	1	33µF	UPM2A330MPD1TD	Nichicon	33µF 100V Aluminum Capacitors Radial, Can 3000 Hrs @ 105℃	D8xL15mm
C6, C11	2	100uF	EEU-FM1E101	Panasonic	CAP, AL, 100 µF, 25 V, +/- 20%, 0.13 ohm, TH	6.3x11.2mm
C7, C8, C12, C18	4	22uF	GRM32ER61E226KE15L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 10%, X5R, 1210	1210
C9	1	4700pF	GRM21AR72E472KW01D	MuRata	CAP, CERM, 4700 pF, 250 V, +/- 10%, X7R, 0805	0805
C10	1	47µF	ESH476M025AC3AA	Kemet	47µF 25V Aluminum Capacitors Radial, Can 2000 Hrs @ 105℃	RCAP, 5x5mm
C13	1	2.2pF	06035A2R2CAT2A	AVX	CAP, CERM, 2.2 pF, 50 V, +/- 11%, C0G/NP0, 0603	0603
C14	1	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603
C15, C19	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C16	1	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C17	1	3600pF	GRM1885C1H362JA01D	MuRata	CAP, CERM, 3600 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
D1	1	150V	FSV20150V	Fairchild Semiconductor	Diode Schottky 150V 20A Surface Mount TO-277-3	TO-277A
D2	1	150V	FSV12150V	Fairchild Semiconductor	Diode Schottky 150V 12A Surface Mount TO-277-3	TO-277A
D3	1	100V	B1100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 1 A, SMA	SMA
D4	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
D5	1	15V	MMSZ5245B-TP	Micro Commercial Co	Zener Diode 15V 500mW ±5% Surface Mount SOD-123	SOD-123
D6	1	1.8V	MMSZ4678-TP	Micro Commercial Co	Zener Diode 1.8V 500mW ±5% Surface Mount SOD-123	SOD-123
D7	1	5.1V	MMSZ5231B-7-F	Diodes Incorporated	Zener Diode 5.1V 500mW ±5% Surface Mount SOD-123	SOD-123
J1, J2, J3	3		OSTVN02A150	On-Shore Technology	Terminal Block, 2.54mm, 2x1, Brass, TH	Terminal Block, 2.54mm, 2-pole, Brass, TH
L1	1	2.2uH	RLB0912-2R2ML	MuRata Toko	Inductor, Shielded, 2.2 µH, 2.6 A, 0.07 ohm, SMD	1008
L2	1	1uH	CIG22E1R0MNE	Samsung	Inductor, Multilayer, 1 µH, 2.2 A, 0.048 ohm, SMD	SMD, Body 2.5x2mm, Height 1.2mm
Q1	1	100V	CSD19531Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 16 A, SON 5x6mm	SON 5x6mm
Q3	1	65 V	BC846BLT1G	ON Semiconductor	Transistor, NPN, 65 V, 0.1 A, SOT-23	SOT-23
R1	1	10.0k	CRM2512-JW-103ELF	Bourns Inc	RES SMD 10K OHM 5% 2W 2512	2512
R2	1	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
R3	1	133k	CRCW0603133KFKEA	Vishay-Dale	RES, 133 k, 1%, 0.1 W, 0603	0603
R4	1	470	RC0603FR-07470RL	Yageo America	RES, 470, 1%, 0.1 W, 0603	0603
R5, R10	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R6	1	21.0k	RC0603FR-0721KL	Yageo America	RES, 21.0 k, 1%, 0.1 W, 0603	0603
R7	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R8	1	86.6k	RC0603FR-0786K6L	Yageo America	RES, 86.6 k, 1%, 0.1 W, 0603	0603
R9	1	0.015	CSRN2512FK15L0	Stackpole Electronics Inc	RES, 0.015, 1%, 2 W, 2512	2512
R11	1	4.99	CRCW06034R99FKEA	Vishay-Dale	RES, 4.99, 1%, 0.1 W, 0603	0603
R20	1	1.82k	CRCW06031K82FKEA	Vishay-Dale	RES, 1.82 k, 1%, 0.1 W, 0603	0603
R21	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
T1	1	15µH	750343373	Wurth Electronics	Transformer, 15µH, TH	
U1	1		LM5020MM-1/NOPB	Texas Instruments	100V Current Mode PWM Controller, 10-pin MSOP, Pb-Free	MUB10A
C2	0	4.7uF	GRM32ER71K475ME14L	MuRata	4.7µF ±20% 80V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
FID1, FID2	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
R12	0	475	RNCP1206FTD475R	Stackpole Electronics Inc.	RES SMD 475 OHM 1% 1/2W 1206	1206

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