

Variant: 001
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 TID #: TIDA-00781



TIDA-00781 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		TIDA-00781	Any	Printed Circuit Board	
2	C1	1	22uF	EEE-FK1H220P	Panasonic	CAP, AL, 22 μ F, 50 V, +/- 20%, 0.88 ohm, SMD	SMT Radial D
3	C4	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, 1210	1210
4	C7	1	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7uF, 50V, +/-10%, X7R, 1206	1206
5	C8	1	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
6	C9	1	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, 0603	0603
7	C10	1	3900pF	C1608C0G1E392J	TDK	CAP, CERM, 3900 pF, 25 V, +/- 5%, COG/NP0, 0603	0603
8	C11, C12, C13	3	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 μ F, 25 V, +/- 10%, X7R, 1210	1210
9	C14	1	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603
10	C15	1	620pF	GRM1885C1E621JA01D	MuRata	CAP, CERM, 620 pF, 25 V, +/- 5%, COG/NP0, 0603	0603
11	D1	1	4.3V	BZT52C4V3T-7	Diodes Inc.	Diode, Zener, 4.3 V, 300 mW, SOD-523	SOD-523
12	D2	1	40V	B340LA-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
13	D3, D4	2	45V	BAS 52-02V H6327	Infineon Technologies	Diode, Schottky, 45 V, 0.75 A, SOD-523	SOD-523
14	GND1, GND2, VIN, VO	4	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
15	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
16	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
17	L1	1	10uH	MSC1278-103ML_	Coilcraft	Coupled inductor, 10 μ H, 3.6 A, 58mohm, +/- 20%, SMD	Inductor, 12.3x8.05x12.3
18	Q1	1	40V	CSD18503Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 19 A, SON 5x6mm	SON 5x6mm
19	R1	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100k ohm, 1%, 0.1W, 0603	0603
20	R4	1	84.5k	CRCW060384K5FKEA	Vishay-Dale	RES, 84.5 k, 1%, 0.1 W, 0603	0603
21	R5	1	24.9	CRCW060324R9FKEA	Vishay-Dale	RES, 24.9, 1%, 0.1 W, 0603	0603
22	R6	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
23	R7	1	4.99	CRCW06034R99FKEA	Vishay-Dale	RES, 4.99 ohm, 1%, 0.1W, 0603	0603
24	R8	1	1.21k	CRCW06031K21FKEA	Vishay-Dale	RES, 1.21 k, 1%, 0.1 W, 0603	0603
25	R9	1	39.2k	CRCW060339K2FKEA	Vishay-Dale	RES, 39.2 k, 1%, 0.1 W, 0603	0603
26	R10	1	0.02	PRL1632-R020-F-T1	Susumu Co Ltd	RES, 0.02, 1%, 1 W, 0612	0612
27	U1	1		LM3481QMM/NOPB	Texas Instruments	High Efficiency Low-Side N-Channel Controller for Switching Regulators, DGS0010A	DGS0010A
28	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
29	R3	0	52.3k	CRCW060352K3FKEA	Vishay-Dale	RES, 52.3 k, 1%, 0.1 W, 0603	0603

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