

Bill of Materials

TI DESIGNS

TIDA-BPM

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	!PCB		Printed Circuit Board	Any	Loading			
2	2	C1, C2	0.068uF	CAP, CERM, 0.068uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E683KA01D		0603L	
3	- 1	C3	0.047uF	CAP, CERM, 0.047uF, 25V, +/-5%, X7R, 0603	AVX	06033C473JAT2A		0603L	
4	1	C4	1800pF	CAP, CERM, 1800 pF, 50 V, +/- 10%, X7R, 0402	MuRata	GRM155R71H182KA01D		0402	
5	1	C5	100pF	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0201	MuRata	GRM033R71E101KA01D		0201L	
6	- 1	C6	0.1uF	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	TDK	C1005X5R1A104K050BA		0402L	
7	1	C7	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0402	TDK	C1005X5R1A225K050BC		0402L	
8	2	C8, C13	0.022uF	CAP, CERM, 0.022uF, 25V, +/-10%, X7R, 0402	MuRata	GRM155R71E223KA61D		0402L	
9	2	C9, C12	0.47uF	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E474KA12D		0603L	
10	2	C10, C11	0.01uF	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	MuRata	GRM155R71E103KA01D		0402L	
11	1	C14	10uF	CAP, CERM, 10uF, 16V, +/-20%, X5R, 0603	Taiyo Yuden	EMK107BBJ106MA-T		0603L	
12	1	C15	1uF	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	MuRata	GRM155R61A105KE15D		0402L	
13	1	C16	4.7uF	CAP, CERM, 4.7uF, 16V, +/-20%, X5R, 0402	MuRata	GRM155R61C475ME15D		0402L	
14	1	R1	845	RES, 845, 1%, 0.05 W, 0201	Vishay-Dale	CRCW0201845RFKED		0201M	
15	1	R2	196	RES, 196, 1%, 0.05 W, 0201	Vishay-Dale	CRCW0201196RFKED		0201M	
16	3	R3, R4, R6	10.0k	RES, 10.0 k, 1%, 0.05 W, 0201	Rohm	MCR006YRTF1002		0201M	
17	1	R5	20.0k	RES, 20.0 k, 1%, 0.05 W, 0201	Vishay-Dale	CRCW020120K0FKED		0201M	
18	- 1	R7	1.00k	RES, 1.00 k, 1%, 0.05 W, 0201	Vishay-Dale	CRCW02011K00FKED		0201M	
19	1	U1	BQ51003YFP	BQ51003YFP	Texas Instruments	BQ51003YFP		DSBGA-28	
20	1	U2	BQ25100YFP	250 mA Single-Input, Single Cell Li-Ion Battery Chargers, YFP0006AFAV	Texas Instruments	BQ25100YFP		WSCP (6)	
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