

Bill of Materials

TI DESIGNS

PMP10612

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
1	1	PCB		Printed Circuit Board	Any	SV601121	
2	5	AGND, EN, PGOOD, SYNC, TRIM	SMT	Test Point, Miniature, SMT	Keystone	5015	Testpoint_Keystone_Miniature
3	4	C1, C4, C11, CT1	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H101JA01D	0603
4	1	C5	68pF	CAP, CERM, 68 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H680JA01D	0603
5	2	C12, Cc2	220pF	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	MuRata	GRM1885C1H221JA01D	0603
6	1	C13	47pF	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H470JA01D	0603
7	1	C14	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	TDK	CGA3E2NP01H101J080	0603
8	2	Cb1, Cb2	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	MuRata	GCM188R71H104KA57	0603
9	2	Cbias, Cin8	0.22uF	CAP, CERM, 0.22uF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H224K080A	0603
10	1	Cc1	0.022uF	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H223KA01	0603
11	1	Cd	0	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	0603
12	6	Cin1, Cin2, Cin3, Cin4, Cin5, Cin6	10uF	CAP, CERM, 10uF, 50V, +/-10%, X7R, 1210	MuRata	GRM32ER71H106KA12L	1210
13	1	Cin7	68uF	CAP, AL, 68 uF, 50 V, +/- 20%, 30 ohm, SMD	Panasonic	EEHZC1H680P	8x10
14	6	Co1, Co2, Co3, Co4, Co5, Co6	10uF	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	MuRata	GRM32ER71H106KA12L	1210
15	5	Co7, Co8, Co9, Co10, Co11	180uF	CAP, AL, 180 uF, 50 V, +/- 20%, 0.019 ohm, SMD	Nichicon	PCR1H181MCL1GS	SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm
16	1	Css	0.068uF	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H683KA93	0603
17	1	Cvcc	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C105KA12	0603
18	1	D1	30V	Diode, Schottky, 30V, 0.2A, SOD-323	ON Semiconductor	BAT54HT1G	SOD-323
19	2	D2, D3	100V	Diode, Switching, 100V, 0.25A, SOD-523	NXP Semiconductor	BAS516,115	SOD-523
20	2	D4, D5	100V	Diode, Switching, 100 V, 0.25 A, SOD-123	Central Semiconductor	CMHD4448 TR	SOD-123
21	3	FID1, FID2, FID3		Fiducial mark. There is nothing to buy or mount.	N/A	N/A	Fiducial
22	4	H1, H2, H3, H4		Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	Screw
23	4	H5, H6, H7, H8		Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	Standoff
24	4	H9, H10, H11, H12		Bumpon, Hemisphere, 0.44 X 0.20, Clear	3M	SJ-5303 (CLEAR)	Transparent Bumpon
25	4	J1, J2, J3, J4		Standard Banana Jack, Uninsulated, 15A	Emerson Network Pow	108-0740-001	Banana Jack
26	1	L1	6.8uH	Inductor, Drum Core, Powdered Iron, 3.3uH, 14A, 0.007 ohm, SMD	Cyntec	PIMB135T-3R3MS	13.45x4.8x12.6mm
27	1	LBL1		Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	PCB Label 0.650"H x 0.200"W
28	4	QH1, QH2, QL1, QL2		MOSFET N-CH 60V 19A 8TSDSON	Infineon Technologies	BSZ042N06NS	8-PowerTDFN
29	1	R1	200k	RES, 200k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07200KL	0603
30	1	R2	52.3k	RES, 52.3 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0752K3L	0603
31	1	R3	DNP	RES, 10.0 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0710RL	0603
32	1	R4	10.0	RES, 10.0, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0710RL	0603
33	2	R5, R6	10.0	RES, 10.0 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0710RL	0603
34	1	R7	DNP	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	0603

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35	1	R8	200k	RES, 200 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603200KFKEA	0603
36	1	R10	7.15k	RES, 7.15k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-077K15L	0603
37	1	R12	100k	RES, 100k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07100KL	0603
38	2	R13, R14	100	RES, 100 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07100RL	0603
39	1	R15	6.65k	RES, 6.65 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-076K65L	0603
40	1	R16	50	RES, 50, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060350R0FKEA	0603
41	1	Rc	1k	RES, 3.01k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-073K01L	0603
42	2	Rh1, RI1	0	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	0603
43	1	Rpg	20.0k	RES, 20.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0720KL	0603
44	1	Rs1	0.007	RES 0.007 OHM 3W 1% 2512 WIDE	Susumu	KRL6432E-M-R007-F-T1	Wide 2512 (6432 Metric), 1225
45	1	RT1	60.4k	RES, 60.4 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0760K4L	0603
46	1	U1		42V Wide VIN 4-Switch Synchronous Buck-Boost Controller, PWP0028F	Texas Instruments	LM5175PWP	PWP0028F

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