

## PMP31345 REV A1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C5, C13, Cbulk1	4	47uF	EEE-FK1V470P	Panasonic	CAP, AL, 47 uF, 35 V, +/- 20%, 0.36 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D
C2, C3, C4, C6, C7, C8, C14, C15, C16	9	10uF	UMJ325KB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C9, C10, C11	3	4.7uF	GCM32ER71H475KA55L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C12	1	0.1uF	CGA2B3X7R1H104K050BD	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C17	1	2.2uF	GRT155C81C225ME13D	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 20%, X6S, AEC-Q200 Grade 2, 0402	0402
C18	1	47nF	GCM155R71E473KA55D	Murata	Ceramic Capacitor for Automotive 47nF ±10% 25VDC X7R 0402 Paper T/R	0402
C19	1	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C20	1	47pF	CGA2B2NP01H470J050BA	TDK	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 0, 0402	0402
C21	1	1000pF	CGA2B2X8R1H102K050BA	TDK	CAP, CERM, 1000 pF, 50 V, +/- 10%, X8R, AEC-Q200 Grade 0, 0402	0402
C22, C23, C24	3	22pF	251R14S220JV4T	Johanson Technology	CAP, CERM, 22 pF, 250 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C25, C26, C27, C28	4	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
D1	1	200V	MBRS3200T3G	ON Semiconductor	Diode, Schottky, 200 V, 3 A, SMB	SMB
D2, D4, D8	3	23V	DDZ23Q-7	Diodes Inc.	Diode, Zener, 23 V, 500 mW, AEC-Q101, SOD-123	SOD-123
D3, D7	2		DFLS1200Q-7	Diodes	DIODE SCHOTTKY 200V POWERDI123	PowerDI123
D5	1		CMZ5938B TR13 PBFREE	Central Semiconductor Corp	Zener Diode 36 V 1.5 W ±5% Surface Mount DO-214AC (SMA)	SMA
D6	1	100V	PMEG10020ELRX	Nexperia	Diode, Schottky, 100 V, 2 A, AEC-Q101, SOD-123W	SOD-123W
J1, J2, J3, J4	4		282841-2	TE Connectivity	Terminal Block, 2x1, 5.08mm, TH	10.16x15.2x9mm
J5	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
Q1	1	30V	BUK9M6R6-30EX	Nexperia	MOSFET, N-CH, 30 V, 70 A, AEC-Q101, 3.4x0.9x2.7mm	LFPK
R1	1	10	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	0	ERJ-H3G0R00V	Panasonic	0 Ohms Jumper 0.125W, 1/8W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	0603
R4	1	100	RMCF0402JT100R	Stackpole Electronics Inc	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5	1	249k	CRCW0402249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	0.007	PE1206FRF470R007L	Yageo America	RES, 0.007, 1%, 1 W, AEC-Q200 Grade 0, 1206	1206
R7	1	12.0k	CRCW040212K0FKEA	Vishay-Dale	RES, 12.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R8	1	10.0k	ERJPA2F1002X	Panasonic	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
R9, R10, R11	3	100	RC1206FR-07100RL	Yageo America	RES, 100, 1%, 0.25 W, 1206	1206
R12	1	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
T1	1		ZF3077-AE	Coilcraft	Transformer	SMD16
U1	1		LM5185QPWPRQ1	Texas Instruments	100-VIN, PSR, Flyback, Automotive, DC/DC Controller With Low IQ and Low EMI	HTSSOP14

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