

## PMP21629 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP21629	Any	Printed Circuit Board	
C2, C3	2	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, 1210	1210
C4, C5	2	2.2uF	CGA6N3X7R2A225K230AB	TDK	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1,	
C6	1	1uF	CGA3E1X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C7	1	1000pF	GCM155R71H102KA37D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C8	1	220pF	GRM1555C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C9, C12	2	0.47uF	GRM155R61C474KE01	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X5R, 0402	0402
C13	1	0.047uF	GRM155R71E473KA88D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	0402
C14	1	10uF	TPSA106K010R0900	AVX	CAP, TA, 10 uF, 10 V, +/- 10%, 0.9 ohm, SMD	3216-18
C15	1	0.1uF	C0402C104K4RACAUTO	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C16	1	0.01uF	GCM155R71E103KA37D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402
C17	1	0.1uF	CGA2B3X7R1H104M050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0402	0402
D1	1	150V	FSV10150V	Fairchild Semiconductor	Diode, Schottky, 150 V, 10 A, AEC-Q101, TO-277A	TO-277A
J1	1		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
J2, J3	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
J4	1		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
L1	1	600nH	XAL5030-601MEB	Coilcraft	Inductor, Shielded, Composite, 600 nH, 17.7 A, 0.00411 ohm, AEC-Q200 Grade 1, SMD	5.3x31.x5.5mm
Q1	1	150V	FDMS86255	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 10 A, SON 5x6mm	SON 5x6mm
R2	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R3	1	162k	CRCW0402162KFKED	Vishay-Dale	RES, 162 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4	1	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5	1	100	CRCW0402100RJNED	Vishay-Dale	RES, 100, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	60.4k	CRCW040260K4FKED	Vishay-Dale	RES, 60.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R8	1	49.9	RC1206FR-0749R9L	Yageo America	RES, 49.9, 1%, 0.25 W, 1206	1206
R9	1	0.005	PMR100HZPFU5L00	Rohm	RES, 0.005, 1%, 2 W, 2512	2512
R10	1	80.6k	CRCW120680K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R11	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12	1	6.49k	CRCW04026K49FKED	Vishay-Dale	RES, 6.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R14	1	1.13k	CRCW04021K13FKED	Vishay-Dale	RES, 1.13 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R15	1	200	CRCW0402200RFKED	Vishay-Dale	RES, 200, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
TP1, TP5, TP6, TP9	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
TP2, TP4	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3	1		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP7, TP8	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM51551QDSSRQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
U2	1		LM4120IM5-4.1/NOPB	Texas Instruments	0.2% 50ppm/°C Drift Precision Series Voltage Reference with Shutdown Enable, DBV0005A (SOT-23-5)	DBV0005A
U3	1		DAC121S101QCMK/NOPB	Texas Instruments	12-Bit Micro Power, RRO Digital-to-Analog Converter, DDC0006A (SOT-23 THIN-6)	DDC0006A
C1	0	470pF	GRM2165C2A471JA01D	MuRata	CAP, CERM, 470 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805

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C18	0	1000pF	GCM155R71H102KA37D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R1	0	4.99	CRCW12064R99FKEA	Vishay-Dale	RES, 4.99, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
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