

PMP23421 Main REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
5V, 12Vs	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
C200, C201, C202, C203, C204, C205, C206, C219, C225	9	10pF	C0603C100F5GAC7867	Kemet	CAP, CERM, 10 pF, 50 V,+/- 1%, COG/NP0, 0603	603
C207	1	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 10%, X5R, 1210	1210
C208	1	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	805
C209	1	22uF	CL21A226KQNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 uF, 6.3 V, +/- 10%, X5R, 0805	805
C210, C212, C213, C218, C224, C400, C403, C405, C407, C409, C411	11	0.1uF	GRM155R70J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X7R, 0402	402
C211	1	0.01uF	C0402C103K4RACTU	Kemet	CAP, CERM, 0.01 uF, 16 V,+/- 10%, X7R, 0402	402
C214, C220	2	68pF	06035A680JAT2A	AVX	CAP, CERM, 68 pF, 50 V,+/- 5%, COG/NP0, 0603	603
C215, C216, C221, C222	4	47pF	GRM1555C1H470FA01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 1%, COG/NP0, 0402	402
C217, C223, C402, C404, C406, C408, C410	7	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V,+/- 10%, X7R, 0603	603
C300, C313	2	4.7uF	GRJ31CC72A475KE01L		CAP CER 4.7UF 100V X7S 1206	1206
C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C315	13	22uF	63PFV22M6.3X8	Rubycon	CAP ALUM POLY HYB 22UF 63V SMD	SMT Radial D
C314, C401	2	0.1uF	12061C104JAT2A	AVX	CAP, CERM, 0.1 uF, 100 V,+/- 5%, X7R, 1206	1206
J200	1		HSEC8-160-01-L-DV-A-BL	Samtec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering
J201	1		61300511021	Würth Elektronik	Header, 2.54 mm, 5x1, Gold, R/A, TH	Header, 2.54 mm, 5x1, R/A, TH
J202	1		HSEC8-130-01-L-DV-A	Samtec	C2000 controlCARD-180HSEC (60-pin addon) connector, SMT	C2000 pin numbering
J300, J301, J302, J303, J304, J305, J306	7		M50-3000645	Harwin	12 Position Receptacle Connector 0.050" (1.27mm) Through Hole Gold	HDR12
J400	1		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
R200, R205, R206, R207, R212, R213, R218, R225, R227, R229, R231, R404, R407, R411	14	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	603

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R201, R202, R203, R204, R208, R209, R210, R211	8	28.7k	CRCW060328K7FKEA	Vishay-Dale	RES, 28.7 k, 1%, 0.1 W, 0603	603
R214, R215, R216, R217	4	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	603
R219	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R220	1	220k	RC0402FR-07220KL	Yageo America	RES, 220 k, 1%, 0.0625 W, 0402	402
R221, R222	2	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R223, R224	2	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.1 W, 0603	603
R226, R228, R230, R232	4	100	RC0603FR-07100RL	Yageo America	RES, 100, 1%, 0.1 W, 0603	603
R300	1	0.01	CSR2512C0R01F	Riedon	RES, 0.01, 1%, 3 W, AEC-Q200 Grade 0, 2512	2512
R301, R302	2	400 μ	PU3921FKNP90U4L	YAGEO	400 μ Ohms \pm 1% 9W Chip Resistor Nonstandard Automotive AEC-Q200, Current Sense, Moisture Resistant Metal Element	3921
R303	1	100	CRCW0805100RDHEAP	Vishay-Dale	RES, 100, 0.5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R400, R401, R402, R403, R405, R406, R409, R410, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431	28	10.0k	RCG060310K0FKEA	Vishay Draloric	RES, 10.0 k, 1%, 0.1 W, 0603	603
R408	1	120	RC0603FR-07120RL	Yageo	RES, 120, 1%, 0.1 W, 0603	603
SGND	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
T300, T301, T302, T303	4		CB70-14-CY	Panduit	Terminal 90A Lug	CB70-14-CY

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP300, TP301, TP302, TP303, TP304, TP305, TP306, TP307, TP308, TP309, TP310, TP311, TP312, TP313, TP314, TP315, TP316, TP317, TP318, TP319, TP320, TP321, TP322, TP323, TP324, TP325, TP326, TP327, TP328, TP329, TP330, TP331, TP332, TP333, TP334, TP335, TP336, TP337, TP338, TP339, TP340, TP341, TP342, TP343, TP344, TP345, TP346, TP347, TP348, TP349, TP350, TP351, TP352, TP353, TP354, TP355	56		0312-0-15-15-34-27-10-0	Mill-Max	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	Pin Receptacle
U200	1		TPSM863252RDX	Texas Instruments	3-V to 17-V Input, 3-A Synchronous Buck Module, QFN-FCMOD7	QFN-FCMOD7
U201	1		TLV71333PQDBVRQ1	Texas Instruments	Capacitor-Free, 150-mA, Low-Dropout Regulator with Foldback Current Limit for Portable Devices, DBV0005A	DBV0005A
U202	1		INA296A4IDDF	Texas Instruments	-4-V to 110-V, Bidirectional, 1-MHz, 5V/μs, Ultra-Precise Current Sense Amplifier, SOT23-8	SOT23-8
U203	1		INA296A3IDDF	Texas Instruments	-4-V to 110-V, Bidirectional, 1-MHz, 5V/μs, Ultra-Precise Current Sense Amplifier, SOT23-8	SOT23-8
U400, U402, U403, U404, U405	5			Texas Instruments	Hex Noninverting Drivers, D0014A, TUBE	D0014A
U401	1		THVD1450D	Texas Instruments	3.3-V to 5-V RS-485 Transceivers With +/-18-kV IEC ESD Protection, D0008A (SOIC-8)	D0008A
Q300, Q301, Q302	0		IPT010N08NM5ATMA1	Infineon	Transistor Power MOSFET N-Channel 80V 425A 8-Pin HSOF T/R	HSOF8
U300	0		LM5050MK-1/NOPB	Texas Instruments	High Side OR-ing FET Controller, DDC0006A (SOT-23-T-6)	DDC0006A

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