

# PMP41017\_C2000Interposer REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C3	2	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	402
C2, C5, C6	3	22uF	GRM21BR61E226ME44L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 20%, X5R, 0805	805
C74, C75, C76, C78, C82, C84, C85, C86, C87, C89, C104, C111, C112, C113, C114, C120, C121, C122	18	100pF			CAP, CERM, 100 pF, 25 V, +/- 10%, X7R,0402	402
C77, C88, C105, C107	4	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	603
C108	1	1uF	GCM188R71C105MA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	603
C109	1	0.01 uF			CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	402
C110, C115, C127, C128	4	0.1uF	8.85012E+11	Wurth Elektronik	CAP, CERM, 0.1 uF, 10 V, +/- 20%, X5R, 0402	402
C116, C117, C123, C124	4	4.7uF	C2012X7R1V475K125AC	TDK	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X7R, 0805	805
C118, C119	2	1000pF	GRM155R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	402
C125, C126	2	0.22 uF			CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0402	402
C129_VS1, C129_VS2	2	1uF	GRM155R70J105KA12D	MuRata	CAP, CERM, 1 uF, 6.3 V,+/- 10%, X7R, 0402	402
C131_VS1, C131_VS2	2	39nF			CAP, CERM, 39nF, 25 V, +/- 10%, NP0, 0402	402
C133_VS1, C133_VS2, C134_VS1, C134_VS2, C136_VS1, C136_VS2	6	0.1uF	C1005X7R1H104K050BE	TDK	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0402	402
D3_VS1, D3_VS2, D4_VS1, D4_VS2, D5_VS1, D5_VS2, D6_VS1, D6_VS2	8	100V	BAS316,115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
J4	1		HTMS-120-01-G-S-RA	Samtec	Header, 1.27mm, 20x1, Gold with Tin tail, TH, Right Angle	Header, 1.27mm, 20x1, TH
J5	1		HTMS-123-01-G-S-RA	Samtec	Header, 1.27mm, 23x1, Gold with Tin tail, TH, Right Angle	Header, 1.27mm, 23x1, TH
J6	1		HSEC8-160-01-L-DV-A-BL	Samtec	C2000 controlCARD-120HSEC connector, SMT	C2000 pin numbering
J7	1		TFM-140-01-L-D-RA	Samtec	Header(shrouded), 1.27mm, 40x2, Gold with Tin tail, R/A, TH	Header(shrouded), 1.27mm, 40x2, R/A, TH
J8	1		SFM-130-01-S-D	Samtec	Receptacle, 1.27mm, 30x2, Gold, TH	Receptacle, 1.27mm, 30x2, TH

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L2	1	10uH	74438323100	Würth Elektronik	Inductor, Wirewound, Ferrite, 10 uH, 0.68 A, 0.46 ohm, SMD	2.5x1x2mm
R1, R2, R11, R12, R13, R14	6	0			RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R3	1	0			RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
R4	1	1.96Meg			RES, 1.96Meg, 1%, 0.1 W, 0402	402
R5	1	1.18Meg			RES, 1.18Meg, 1%, 0.1 W, 0402	402
R6	1	73.2k			RES, 73.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402
R7, R8, R9, R10, R30, R32, R33, R35, R37, R40, R43, R45, R46, R48, R50, R52, R99, R101	18	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R15, R16, R17, R18	4	100R			RES, 100R, 1%, 0402	402
R19, R20, R68, R69, R70, R71, R112_VS1, R112_VS2, R114_VS1, R114_VS2, R115_VS1, R115_VS2, R116_VS1, R116_VS2	14	10.0 k			RES, 10.0 k, 1%, 0.1 W, 0402	402
R21, R22, R79, R80, R111_VS1, R111_VS2	6	1.00 k			RES, 1.00 k, 1%, 0402	402
R60	1	0			RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	AXIAL-0.3
R64	1	4 k			RES, 4 k, 1%,0402	402
R72, R73, R74, R75, R76, R77, R78	7	100			RES, 100, 1%, 0402	402
R81, R82	2	20.0 k			RES, 20.0 k, 1%, 0402	402
R83_VS1, R83_VS2	2	10			RES, 10.0, 1%, 0402	402
R85_VS1, R85_VS2, R90_VS1, R90_VS2, R91_VS1, R91_VS2, R95_VS1, R95_VS2	8	3.00 k			RES, 3.00 k, 1%, 0402	402
U1	1		TPS562211DRLR	Texas Instruments	4.2-V to 17-V Input, 2-A Synchronous Buck Converter, DRL0008A (SOT-5X3-8)	DRL0008A
U9	1		TPS7A2401DBVR	Texas Instruments	Linear Voltage Regulator IC 1 Output 200mA SOT-23-5	SOT-23-5
U11	1		TLV71333PDBVT	Texas Instruments	Capacitor-Free, 150-mA, Low-Dropout Regulator with Foldback Current Limit for Portable Devices, DBV0005A	DBV0005A
U12	1		TLV431BCDBZT	Texas Instruments	Low-Voltage Adjustable Precision Shunt Regulator, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U13	1		ISO7741DWR	Texas Instruments	High-Speed, Low-Power, Robust EMC Quad-Channel Digital Isolator, DW0016B (SOIC-16)	DW0016B

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U14, U15	2		UCC21540DWR	Texas Instruments	4A/6A, 5.7 kVrms Isolated Dual Channel Gate Driver, DW0016B (SOIC-16)	DW0016B
U16_VS1, U16_VS2, U17_VS1, U17_VS2	4		OPA365	Texas Instruments	50-MHz, Low-Power, Gain of 6-V/V Stable, Rail-to-Rail Output CMOS Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A