

PMP21795 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC B1	1		PMP21566	Any	PMP21566 REV B	N/A
C3, C4, C5, C6, C7, C9, C15, C16, C17	9	10uF	GRM32ER71J106KA12L	MuRata	CAP, CERM, 10 uF, 63 V, +/- 10%, X7R, 1210	1210
C8	1	180uF	UCZ1J181MNQ1MS	Nichicon	CAP, AL, 180 uF, 63 V, +/- 20%, 0.2 ohm, AEC-Q200 Grade 1, SMD	D12.5xL13.5mm
C10, C12	2	0.1uF	C0402C104K4RACAUTO	Kemet	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C11, C22, C23	3	4.7uF	GRM188Z71C475KE21D	MuRata	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, 0603	0603
C13, C30, C31	3	4700pF	GRM155R72A472KA01D	MuRata	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0402	0402
C14	1	0.1uF	GCJ188R72A104KA01D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C18, C32	2	0.068uF	C1005X7R1H683K050BB	TDK	CAP, CERM, 0.068 uF, 50 V, +/- 10%, X7R, 0402	0402
C19	1	0.47uF	CGA3E3X7R1H474K080AB	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C20	1	1000pF	06031C102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, X7R, 0603	0603
C21	1	220uF	EEE-FK1E221P	Panasonic	CAP, AL, 220 uF, 25 V, +/- 20%, 0.16 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
C24, C25	2	100uF	LMK325ABJ107MMHT	Taiyo Yuden	CAP, CERM, 100 uF, 10 V, +/- 20%, X5R, AEC-Q200 Grade 3, 1210	1210
C26, C27	2	100uF	LMK325ABJ107MMHT	Taiyo Yuden	CAP, CERM, 100 uF, 10 V, +/- 20%, X5R, AEC-Q200 Grade 3, 1210	1210
C28	1	33pF	GRM0335C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, COG/NP0, 0201	0201
C29	1	0.022uF	CGA3E2X7R2A223K080AA	TDK	CAP, CERM, 0.022 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C33	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
C34	1	0.01uF	C0402C103J5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	0402
C35	1	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C101	1	4700pF	GCM155R71H472KA37D	MuRata	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
D1	1	60V	PMEG6010CEJ,115	NXP Semiconductor	Diode, Schottky, 60 V, 1 A, SOD-323F	SOD-323F
D2	1	100V	SSA210	Fairchild Semiconductor	Diode, Schottky, 100 V, 2 A, AEC-Q101, SMA	SMA
H1, H2, H3, H4	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
H5, H6, H7, H8	4		PMSSS 440 0025 PH	B&F Fastener Supply	MACHINE SCREW PAN PHILLIPS 4-40	Machine Screw, 4-40, 1/4 inch
H9	1		BMI-S-209-F	Laird-Signal Integrity Products	Standard Surface Mount Shield , Height 7mm	29.36x7.0x18.50mm
H10	1		BMI-S-201-F	Laird-Signal Integrity Products	EMI SHIELD, 13.66 x 12.70 mm, SMT	13.06x14.02mm
J1, J2, J3, J4	4		TSW-102-07-G-D	Samtec	Header, 100mil, 2x2, Gold, TH	2x2 Header
L1	1	2.2uH	XAL6030-222MEB	Coilcraft	Inductor, Shielded, Composite, 2.2 uH, 10 A, 0.01397 ohm, AEC-Q200 Grade 1, SMD	IND_6.4x3.1x6.6
L3	1		ACM1211-701-2PL-TL01	TDK	Coupled inductor, 8 A, 0.006 ohm, SMD	SMD, 12x11mm
L4	1	800 ohm	HR2220V801R-10	Laird-Signal Integrity Products	Ferrite Bead, 800 ohm @ 100 MHz, 8 A, 2220	2220
L5	1	2.2uH	IHLE4040DDER2R2M5A	Vishay-Dale	Inductor, Shielded, 2.2 uH, 12 A, 0.00876 ohm, AEC-Q200 Grade 0, SMD	Shielded Inductor
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
LFB_Voutsense1, Vin_S1	2	10 ohm	BLM15AX100SN1D	MuRata	Ferrite Bead, 10 ohm @ 100 MHz, 1.74 A, 0402	0402
Q1	1	60V	NVMFD5C672NLT1G	ON Semiconductor	MOSFET, 2-CH, N-CH, 60 V, 49 A, AEC-Q101, 4.9x5.9mm	4.9x5.9mm
R1, R2	2	100k	CRCW0402100KFED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R3	1	10.0	RMCF0402JT10R0	Stackpole Electronics Inc	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R4, R5, R8, R11	4	0	RK73Z1ETTP	KOA Speer	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	0.004	KRL6432E-M-R004-F-T1	Susumu Co Ltd	RES, 0.004, 1%, 3 W, 2512 WIDE	2512 WIDE
R7	1	51.1k	CRCW040251K1FKED	Vishay-Dale	RES, 51.1 k, 1%, 0.063 W, 0402	0402
R9	1	4.02	CRCW06034R02FKEA	Vishay-Dale	RES, 4.02, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	1	49.9	RMCF0402FT49R9	Stackpole Electronics Inc	RES, 49.9, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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R12	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R15	1	0	MCR01MZPJ000	Rohm	RES, 0, 5%, 0.063 W, 0402	0402
R101	1	200	CRCW0402200RFBKED	Vishay-Dale	RES, 200, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R102	1	21.0k	CRCW040221K0FKED	Vishay-Dale	RES, 21.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R103	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R104	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
SH-J1	1		60900213421	Würth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
TP1, TP3, TP5, TP6, TP7, TP8, TP9	7	Triple	1598-2	Keystone	Terminal, Turret, TH, Triple	Keystone1598-2
TP2, TP4	2		S1751-46	Harwin	Test Lead clips and hooks, SMT	Test Point, Body 3.25x1.65mm
U1	1		LM5141QRGERQ1	Texas Instruments	Wide Input 2.2MHz low Iq Synchronous Buck Controller, RGE0024J (VQFN-24)	RGE0024J
C1, C2	0	10uF	GRM32ER71J106KA12L	MuRata	CAP, CERM, 10 uF, 63 V, +/- 10%, X7R, 1210	1210
C36	0	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
FID1, FID2, FID3, FID4	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
L2	0	800 ohm	HR2220V801R-10	Laird-Signal Integrity Products	Ferrite Bead, 800 ohm @ 100 MHz, 8 A, 2220	2220
R13	0	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R14	0	0	MCR01MZPJ000	Rohm	RES, 0, 5%, 0.063 W, 0402	0402

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