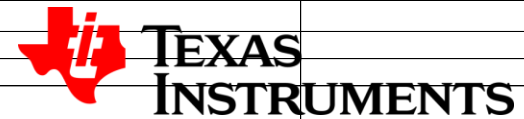


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PMP21103 REV B Bill of Materials						
Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C28	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C21, C26, C33	3	100pF	C1608C0G1H101J080AE	TDK	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C11, C12, C13, C14	4	330pF	GRM1885C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C7, C8, C42, C43	4	1000pF	GRM188R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C35	1	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V,+/- 10%, X7R, 0603	0603
C24	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C2, C3, C4, C5	4	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X7R, 0603	0603
C44	1	0.01uF	C1608X7R1H103K080AA	TDK	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	0603
C32, C34	2	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
C15, C30, C39	3	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C10	1	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
C27, C31, C36, C38, C41	5	1uF	GRM21BR71E105KA99L	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0805	0805
C25	1	0.047uF	GRM31CR72E473KW03L	MuRata	CAP, CERM, 0.047 uF, 250 V, +/- 10%, X7R, 1206	1206
C22, C23, C40	3	10uF	885012209028	Würth Elektronik	CAP, CERM, 10 µF, 25 V,+/- 10%, X7R, 1210	1210
C19, C20	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
C1, C6	2	1000pF	GR443QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
C16, C29	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V,+/- 10%, X7R, 1812	1812
C45	1	22uF	EEE-FK1E220R	Panasonic	CAP, AL, 22 uF, 25 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial C
C18, C37	2	47uF	20SVP47M	Panasonic	CAP, Aluminum Polymer, 47 µF, 20 V,+/- 20%, 0.045 ohm, 8x10 SMD	8x10
C9, C17	2	47uF	EEE-FK1K470P	Panasonic	CAP, AL, 47 µF, 80 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
D1, D2, D3, D4	4	100V	B2100-13-F	Diodes Inc.	Diode, Schottky, 100V, 2A, SMB	SMB
D5, D6	2	58V	SMBJ58A-13-F	Diodes Inc.	Diode, TVS, Uni, 58V, 600W, SMB	SMB
D7, D8, D9, D11, D13, D14, D17, D19, D26	9	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
D10, D12	2	10V	MMSZ5240B-7-F	Diodes Inc.	Diode, Zener, 10 V, 500 mW, SOD-123	SOD-123
D15	1	9.1V	BZT52C9V1T-7	Diodes Inc.	Diode, Zener, 9.1 V, 300 mW, SOD-523	SOD-523
D16	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D18	1	5.1V	MMSZ5231B-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
J1, J2	2		1-406541-1	AMP	RJ-45, Right Angle, No LED, tab up	16.26x14.54x15.75
J3, J4, J5	3		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
J6, J7	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1, L3	2	220 ohm	MPZ1608S221A	TDK	Ferrite Bead, 220 ohm @ 100 MHz, 2.2 A, 0603	0603
L2	1	250uH	744272251	Würth Elektronik	Coupled inductor, 250 µH, A, 0.035 ohm, SMD	8.7x10mm
L4	1	1.5mH	LPS6235-155MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 1.5 mH, 0.14 A, 4.6 ohm, SMD	LPS6235
L5	1	3.3uH	MSS5131-332MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 3.3 µH, 1.73 A, 0.03 ohm, SMD	MSS5131
L6	1	22uH	MSS1278-223MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 22 µH, 4 A, 0.04 ohm, SMD	MSS1278
L7, L9	2	30 ohm	MPZ2012S300AT000	TDK	Ferrite Bead, 30 ohm @ 100 MHz, 6 A, 0805	0805
L8	1	9uH	744273801	Würth Elektronik	Coupled inductor, 9 µH, 0.011 ohm, SMD	SMD, 4-Leads, Body 9.5x8.3mm
Q1, Q2, Q3, Q4	4	100V	CSD19538Q2	Texas Instruments	MOSFET, N-CH, 100 V, 4.5 A, DQK0006C (WSON-6)	DQK0006C
Q5, Q10	2	60V	CSD18534Q5A	Texas Instruments	MOSFET, N-CH, 60 V, 50 A, DQJ0008A (VSONP-8)	DQJ0008A
Q6, Q7	2	100 V	FCX493TA	Diodes Inc.	Transistor, NPN, 100 V, 1 A, SOT-89	SOT-89
Q8	1	150V	FDS86242	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 4.1 A, SOIC-8	SOIC-8
Q9	1	-150V	FDMC2523P	Fairchild Semiconductor	MOSFET, P-CH, -150 V, -3 A, QFN-8	QFN-8



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Q11	1	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
Q12, Q13, Q14, Q17, Q20, Q21	6	60V	2N7002P,215	Nexperia	MOSFET, N-CH, 60 V, 0.36 A, SOT-23	SOT-23
Q15, Q16	2	-20V	CSD25402Q3A	Texas Instruments	MOSFET, P-CH, -20 V, -15 A, DNH0008A (VSONP-8)	DNH0008A
Q18	1	-60V	BSH201,215	Nexperia	MOSFET, P-CH, -60 V, -0.3 A, SOT-23	SOT-23
Q19	1	100V	BSS123	Fairchild Semiconductor	MOSFET, N-CH, 100 V, 0.17 A, SOT-23	SOT-23
R13, R14, R24, R38, R42, R61	6	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R33, R41	2	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R2, R3, R5, R7, R8, R9, R10, R11	8	75.0	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0 ohm, 1%, 0.1W, 0603	0603
R36, R60, R73	3	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R54, R62	2	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R39	1	4.22k	CRCW06034K22FKEA	Vishay-Dale	RES, 4.22 k, 1%, 0.1 W, 0603	0603
R47, R51, R52, R57, R63, R64, R66, R70, R71, R75, R76	11	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R50	1	5.90k	CRCW06035K90FKEA	Vishay-Dale	RES, 5.90 k, 1%, 0.1 W, 0603	0603
R1, R4, R6, R37, R48, R49, R55, R65	8	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R69	1	12.7k	CRCW060312K7FKEA	Vishay-Dale	RES, 12.7 k, 1%, 0.1 W, 0603	0603
R44	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R67	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R45	1	21.5k	CRCW060321K5FKEA	Vishay-Dale	RES, 21.5 k, 1%, 0.1 W, 0603	0603
R12	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
R46	1	28.7k	CRCW060328K7FKEA	Vishay-Dale	RES, 28.7 k, 1%, 0.1 W, 0603	0603
R29	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R19	1	53.6k	CRCW060353K6FKEA	Vishay-Dale	RES, 53.6 k, 1%, 0.1 W, 0603	0603
R56	1	64.9k	CRCW060364K9FKEA	Vishay-Dale	RES, 64.9 k, 1%, 0.1 W, 0603	0603
R53	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.1 W, 0603	0603
R58, R59, R68	3	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R35	1	121k	CRCW0603121KFKEA	Vishay-Dale	RES, 121 k, 1%, 0.1 W, 0603	0603
R20, R21, R22, R23	4	232k	CRCW0603232KFKEA	Vishay-Dale	RES, 232 k, 1%, 0.1 W, 0603	0603
R15, R16, R17, R18	4	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R26	1	63.4	CRCW080563R4FKEA	Vishay-Dale	RES, 63.4, 1%, 0.125 W, 0805	0805
R27	1	1.21k	CRCW08051K21FKEA	Vishay-Dale	RES, 1.21 k, 1%, 0.125 W, 0805	0805
R74	1	2.49k	CRCW08052K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.125 W, 0805	0805
R30, R31	2	2.0k	CRCW12062K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.25 W, 1206	1206
R40	1	0.1	ERJ-L1DKF10CU	Panasonic	RES, 0.1 ohm, 1%, 0.5W, 2010	2010
R32	1	10	CRCW201010R0JNEF	Vishay-Dale	RES, 10, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R28	1	1.3k	CRCW20101K30JNEF	Vishay-Dale	RES, 1.3 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
T1	1	350uH	7490220122	Würth Elektronik	Transformer, 350 uH, SMT	14.7x18.29mm
T2	1	100.5uH	EP-389SG	Mentech	Transformer, 100.5 uH, SMT	14.2x17.75mm
U1, U2, U3, U5	4		HMHA2801A	Fairchild Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	Mini Flat Package
U4	1		TPS2373-4RGWR	Texas Instruments	High-Power PoE PD Interface with Advanced Startup, RGW0020B (VQFN-20)	RGW0020B
U6	1		TL431AIDBVR	Texas Instruments	Adjustable Precision Shunt Regulator, DBV0005A (SOT-23-5)	DBV0005A
U7	1		UCC2897ARGPR	Texas Instruments	Advanced Active Clamp PWM Controller with Current Control, -40 to +125 degC, 20-pin QFN (RGP), Green (RoHS & no Sb/Br)	RGP0020D
U8	1		TPS3803-01DCKR	Texas Instruments	Single Voltage Detector, 1 Supply Monitored, -40 to 85 degC, 5-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0005A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
D20, D21, D22, D23	0	100V	B2100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 2 A, SMB	SMB
D24, D25	0	35V	PDS835L-13	Diodes Inc.	Diode, Schottky, 35 V, 8 A, PowerDI5	PowerDI5
R25, R43, R72	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R34	0	121k	CRCW0603121KFKEA	Vishay-Dale	RES, 121 k, 1%, 0.1 W, 0603	0603

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