

PMP4403 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R21,R39	2	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 1%, 0.1 W, 0603	0603
C13, C14, C15	3	0.022uf	C0603X223K5RACTU	Kemet	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	0603
C17,C18	2	0.1uF	Std	Std	CAP, CERM, 0.1uF, 50 V, +/- 1%, C0G/NP0, 0603	0603
D3, D5	2	BAS20	BAS20	ON Semiconductor	Diode, P-N, 200 V, 0.2 A, SOD-323	sod-323
R24, R32 R33 R35	4	1.00 k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R27, R29	2	10.0 k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R28, R30	2	100 k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R6, R7	2	150	CRCW1206150RJNEA	Vishay-Dale	RES, 150, 1%, 0.25 W, 1206	1206
R8, R10	2	2	CRCW06032R00JNEA	Vishay-Dale	RES, 2.0, 1%, 0.1 W, 0603	0603
C9, C11	2	4.7 pF	std	AVX	CAP, CERM, 4.7 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
C4, C5	2	680 µF		Nichicon	CAP, AL, 680 µF, 6.3 V, +/- 20%, 0.008 ohm, TH	CAPPRD350W60D80 OH800
C2, C3	2	12 µF		Panasonic	CAP, AL, 12 µF, 400 V, +/- 20%, 2.864788 ohm, TH	CAPPR5-10X20
D1	1	MDB6S	MDB6S	Fairchild Semiconductor	Diode, Switching-Bridge, 600 V, 1 A, Diode Bridge,6.5x1.3x5.0mm, SMT	MICRODIP_4
D2	1	PDS1040L	PDS1040L-13	Diodes Inc.	Diode, Schottky, 40 V, 10 A, PowerDI5	PowerDI5
D4	1	DFLR1600	DFLR1600-7	Diodes Inc.	Diode, Standard Recovery Rectifier, 600 V, 1 A, PowerDI123	powerDI123
D6	1	6.2 V	DFLZ6V2-7	Diodes Inc.	Diode, Zener, 6.2 V, 1 W, PowerDI123	powerDI123
F1	1	1A		Littelfuse	Fuse, 1 A, 250 V, TH	FUSE_392
J1	1		20-0000016-01	Lintes Technology	Connector, Receptacle, USB Type C, R/A, SMT	Lintes_20-0000016-01
L1	1	470 µH	7447462471	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 470 µH, 0.35 A, 1.58 ohm, TH	WE-TI_5075
L3	1	806 µH	RLTI-1081	Renco Electronics	Coupled inductor, 806 µH, A, 0.27 ohm, +/- 21%, TH	IND_RLTI-1081
L4	1		HZ1206E152R-10	Laird-Signal Integrity	Ferrite Bead, 950 ohm @ 100 MHz, 0.5 A, 1206	1206
Q3	1	MMBT3904	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R1	1	100 k	CRCW1206100KJNEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, 1206	1206
R11	1	91 k	CRCW060391K0JNEA	Vishay-Dale	RES, 91 k, 1%, 0.1 W, 0603	0603
R12	1	68 k	CRCW060368K0JNEA	Vishay-Dale	RES, 68 k, 1%, 0.1 W, 0603	0603
R13	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 1%, 0.1 W, 0603	0603
R14	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 1%, 0.1 W, 0603	0603
R15	1	1.5 k	CRCW06031K50JNEA	Vishay-Dale	RES, 1.5 k, 1%, 0.1 W, 0603	0603
R17	1	39 k	CRCW060339K0JNEA	Vishay-Dale	RES, 39 k, 1%, 0.1 W, 0603	0603
R18	1	20.0 k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R19	1	1	CRCW12061R00JNEA	Vishay-Dale	RES, 1.0, 1%, 0.25 W, 1206	1206
R2	1	330 k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 1%, 0.25 W, 1206	1206
R20	1	2	CRCW12062R00JNEA	Vishay-Dale	RES, 2.0, 1%, 0.25 W, 1206	1206
R22	1	20 k	CRCW060320K0JNEA	Vishay-Dale	RES, 20 k, 1%, 0.1 W, 0603	0603
R23	1	47 k	CRCW060347K0JNEA	Vishay-Dale	RES, 47 k, 1%, 0.1 W, 0603	0603
R25	1	22 k	CRCW060322K0JNEA	Vishay-Dale	RES, 22 k, 1%, 0.1 W, 0603	0603
R26	1	2.00 k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R31	1	22	CRCW080522R0JNEA	Vishay-Dale	RES, 22, 1%, 0.125 W, 0805	0805_HV
R4	1	100 k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603

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R5	1	20	CRCW080520R0JNEA	Vishay-Dale	RES, 20, 1%, 0.125 W, 0805	0805_HV
R9	1	150 k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
T1	1		750343025	Würth-midcom	Transformer, TH	750343025
U5	1	TCMT1107	TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMD-4	SOP-4
C6	1	0.1 µF	C1608X7R1E104K	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, 0603	0603
C10	1	1 µF	GRM188R61E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
C16	1	1 µF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603_095	0603_095
C7	1	1000 pF	08055C102KAT2A	AVX	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603_HV
C1	1	330 pF	GRM31A5C2J331JW01D	MuRata	CAP, CERM, 330 pF, 630 V, +/- 1%, C0G/NP0, 1206	1206
C8	1	10 µF	GMK316AB7106KL-TR	Taiyo Yuden	CAP, CERM, 10 µF, 35 V, +/- 10%, X7R, 1206_190	1206_190
C12	1	100 pF	DE1E3KX222MA5BA01	MuRata	CAP, CERM, 100 pF, 250 V, +/- 20%, E, Disc 10x8mm	CAPRD1000W60D1000H1400
Q1	1	CSD18509	CSD18509Q5B	Texas Instruments	MOSFET, N-CH, 40 V, 38 A, SON 5x6mm	TRANS_NexFET_Q5B
Q2	1	7A 650V	AOD7N65	AOS	MOSFET, N-CH, 650 V, 7 A, DPAK	DPAK
U6	1	TL431	TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A_N
U7	1	TPD2E001	TPD2E001DRLRG4	Texas Instruments	Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 6-pin SON (DRY), Green (RoHS & no Sb/Br)	DRY0006A
U1	1	TPS25810	TPS25810RVC	Texas Instruments	USB Type-C DFP Controller and Power Switch with Load Detection, RVC0020A	RVC0020A
U2	1	TPS2514	TPS2514ADB	Texas Instruments	USB Dedicated Charging Port Controller, DBV0006A	DBV0006A_N
U3	1	UCC24636	UCC24636DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A_N
U4	1	UCC28740	UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A_N
D7 D8	2	Green	150060GS75000	Würth Elektronik	WL-SMCW SMD CHIP LED WATERCLEAR	
C19	1	10 µF		STD	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805	0805

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