

PMP40381 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C19, C20	3		870025374005	Wurth Electronics Inc.	CAP ALUM POLY 330UF 20% 16V T/H	Radial, Can
C2, C3	2	47uF	C3216X5R1E476M160AC	TDK	CAP, CERM, 47 μF, 25 V, +/- 20%, X5R, 1206_190	1206_190
C4	1	470pF	06035A471JAT2A	AVX	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C5	1	330pF	GRM31A5C2J331JW01D	MuRata	CAP, CERM, 330 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C6, C7, C12, C13	4	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
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C8	1		860020373010	Wurth Electronics Inc.	CAP, AL, 220 μF, 16 V, +/- 20%, TH	Radial, Can
C9, C11, C17,	4		860021378014	Wurth Electronics Inc.	CAP ALUM 33UF 20% 400V RADIAL	Radial, Can
C18						
C10	1		860020474013	Wurth Electronics Inc.	CAP, AL, 330 μF, 25 V, +/- 20%, TH	Radial, Can
C14	1	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 μF, 25 V, +/- 10%, X7R, 0603	0603
C15, C22	2	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C16	1		RNU1E221MDNASQPX	Nichicon	CAP ALUM POLY 220UF 20% 25V T/H	Radial, Can
C21	1	33uF	UVR1E220MDD6TP	Nichicon	CAP, AL, 33 μF, 25 V, +/- 20%, TH	D5xL11mm
C23	1	0.033uF	06035C333JAT2A	AVX	CAP, CERM, 0.033 µF, 50 V,+/- 5%, X7R, 0603	0603
C25	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C26	1	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603
C27, C28, C30,	5	0.1uF	06033D104KAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X5R, 0603	0603
C32, C33						
C29	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C31	1	2200pF	DE1E3RA472MA4BP01F	MuRata	CAP, CERM, 4700 pF, 500 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C35	1	470pF	06031C471JAT2A	AVX	CAP, CERM, 470 pF, 100 V, +/- 5%, X7R, 0603	0603
D1, D5	2	60V	B160S1F	Diodes	Diode, Schottky, 60 V, 1 A, SOD-123	SOD-123
D2	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D3	1	800V	MB8S-TP	Micro Commercial Componen	Diode, Switching-Bridge, 800 V, 0.5 A, TO269AA	TO269AA
D4	1	60V	B160-13-F	Diodes Inc.	Diode, Schottky, 60 V, 1 A, SMA	SMA
D6	1	150V	SK215ATR	SMC Diode Solutions	Diode, Schottky, 150 V, 2 A, SMA	SMA
D13	1	1000V	RS1M-13-F	Diodes Inc.	Diode, P-N, 1000 V, 1 A, SMA	SMA
F1	1		36911000000	Littelfuse	Fuse, 1 A, 300VAC/VDC, TH	8x8.5x4mm
L1	1	220uH	7447462221	Wurth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 220 µH, 0.5 A, 0.96 ohm, TH	D6 x 8.5mm
L2	1		XFL3010-153MEB	Coilcraft	Power inductor, shielded, 20% tol, SMT, RoHS, halogen-f	
L4	1		7447462010	Wurth Electronics Inc.	FIXED IND 1UH 8.5A 15 MOHM TH	Radial
Q2	1		STD4NK80Z-1	STMicroelectronics	MOSFET N-CH 800V 3A IPAK	
R1, R11, R22, R25	4	1.00Meg	CRCW12061M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R2, R15, R23, R28	4	200k	CRCW1206200KJNEA	Vishay-Dale	RES, 200 k, 5%, 0.25 W, 1206	1206
R3, R7, R9	3	3.00k	ERJ-6ENF3001V	Panasonic	RES, 3.00 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R4	1	1.50Meg	CRCW06031M50FKEA	Vishay-Dale	RES, 1.50 M, 1%, 0.1 W, 0603	0603
R5	1	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R6	1	150	CRCW1206150RJNEA	Vishay-Dale	RES, 150, 5%, 0.25 W, 1206	1206
R8	1	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
R13	1	106k	RT0805BRD07106KL	Yageo America	RES, 106 k, 1%, 0.125 W, 0805	0805
R14	1	36.0k	RG1608P-363-B-T5	Susumu Co Ltd	RES, 36.0 k, 1%, 0.1 W, 0603	0603

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R16	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R17, R20	2	4.70	ERJ-6RQF4R7V	Panasonic	RES, 4.70, 1%, 0.125 W, 0805	0805
R18	1	560	CRCW0603560RJNEA	Vishay-Dale	RES, 560, 5%, 0.1 W, 0603	0603
R19	1	51.0k	RC0603FR-0751KL	Yageo America	RES, 51.0 k, 1%, 0.1 W, 0603	0603
R21	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, 0603	0603
R24, R34, R35	3	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R27	1	1.50k	RC0603FR-071K5L	Yageo America	RES, 1.50 k, 1%, 0.1 W, 0603	0603
R30, R31, R33,	4	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R41						
R37	1	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
R42	1	470	RC0603FR-07470RL	Yageo America	RES, 470, 1%, 0.1 W, 0603	0603
R43	1	56.0K	RC0603FR-0756KL	Yageo America	RES, 56.0k, 1%, 0.1 W, 0603	0603
T1	1		750343920	Wurth Electronics Inc.	Transformer, Flyback	Wurth Elektronik
U1, U7	2		TLV76050DBZR	Texas Instruments	100mA, 30V Wide-VIN, Fixed-Output Linear-Voltage Regulator	DBZ
U2	1		TPS70950DRVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with	DRV0006A
					Reverse Current Protection, DRV0006A (WSON-6)	
U3	1		TPS560430XFDBVR	Texas Instruments	4V to 36 V 0.6 A Synchronous Step-Down Converter, DBV0006A (SOT-23-	DBV0006A
					6)	
U4	1		LTV-817S	Lite-On	Optocoupler, 5 kV, 50-600% CTR, SMT	DIP-4 SMT
U5	1		TL431AIDBZT	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85	DBZ0003A
					degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	
U6	1		UCC28600D	Texas Instruments	Quasi-Resonant Flyback Green-Mode Controller with Current Control, 99	D0008A
					% Duty Cycle, -40 to +105 degC, 8-pin SOIC (D), Green (RoHS & no	
					Sb/Br)	
C24	0	2200pF	DE1E3RA222MA4BP01F	MuRata	CAP, CERM, 2200 pF, 500 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C34, C36, C37	0	470pF	06031C471JAT2A	AVX	CAP, CERM, 470 pF, 100 V, +/- 5%, X7R, 0603	0603
Q1	0	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R10	0	330k	CRCW1206330KJNEA	Vishay-Dale	RES, 330 k, 5%, 0.25 W, 1206	1206
R12, R29	0	1.10k	CRCW12061K10FKEA	Vishay-Dale	RES, 1.10 k, 1%, 0.25 W, 1206	1206
R26, R32, R44	0	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R36, R38, R39	0	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
TP1	0		5005	Keystone	Test Point, Compact, Red, TH	Red Compact
						Testpoint
TP2	0		5006	Keystone	Test Point, Compact, Black, TH	Black Compact
				,		Testpoint
RV1	0	560V	Used in BOM report	Used in BOM report	Varistor, xxxVAC, xxVDC, xxJ, [Diameter], [Package]	Used in PnP output
			· ·	·		and some BOM
						reports

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