

PMP31376 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3	3	68uF	860021380017	Würth Elektronik	WCAP-ATG5 Aluminum Electrolytic Capacitor, Radial, THT, D16 x H25mm, 68µF, 400V	
C4	1	0.22uF	890324023028CS	Würth Elektronik	CAP, Film, 0.22 µF, X2 275 VAC, +/- 10%, TH	13x7mm
C5, C6	2	10µF	885012209073	Würth Electronics	10 µF ±10% 50V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
C7, C8, C9	3	470uF	EKZN350ELL471MJ20S	Chemi-Con	CAP, AL, 470 uF, 35 V, +/- 20%, 0.028 ohm, TH	D10xL20mm
C10	1	10uF	865060643005	Würth Elektronik	WCAP-ASLL Aluminum Electrolytic Capacitor, V-Chip, D6.3 x H5.5mm, 10µF, 50V	
C11	1	47µF	865080645012	Würth Elektronik	WCAP-ASLI Aluminum Electrolytic Capacitor, V-Chip, D6.3 x H7.7mm, 47uF, 50V	
C12	1	1µF	885012207103R	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0805, X7R, 1µF, 50VDC	
C16, C27	2	2.2nF	8853522130151	Würth Elektronik	WCAP-CSSA Multilayer Ceramic Chip Safety Capacitor, size 2211, X7R Class II, 2.2nF, 250VAC	
C17, C21, C24	3	0.1uF	885012206095	Würth Elektronik	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C18, C23	2	0.01uF	885012206089	Würth Elektronik	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	603
C19, C28	2	220pF	885012006059	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, NP0, 220pF, 50VDC	
C20	1	10pF	885012006051	Wuerth	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C22	1	1µF	885012206126	Würth Electronics	1 µF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	603
C25	1	150nF	885012206072	Würth Elektronik	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0603, X7R, 150nF, 25VDC	
D1	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
D2, D3	2	100V	824550102	Wuerth	WE-TVSP Power TVS Diode, Uni, 100 V, SMC	SMC
D4	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D5	1	200V	BAS20LT1G	ON Semiconductor	Diode, Standard Recovery Rectifier, 200 V, 0.2 A, AEC-Q101, SOT-23	SOT-23
D6	1	15V	BZX84C15LT1G	ON Semiconductor	Diode, Zener, 15 V, 225 mW, SOT-23	SOT-23
D7	1	200V	12TQ200	SMC Diode Solutions	Diode, Schottky, 200 V, 15 A, TH	TO-220AC
D8	1	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
D9, D11	2	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
F1	1	3A	0443003.DR	Littelfuse	Fuse, 3 A, 250 V, SMD	FUSE 10.1x3.12x3.13mm
H1	1		513002B02500G	Aavid		
H2	1		7173DG	Aavid	Heat Sink, TO-220 Vertical	9.52x19.05x19.05 mm
J1, J2	2		691236510002	Würth Electronics	2 Position Wire to Board Terminal Block Horizontal with Board 0.200" (5.08mm) Through Hole	HHR2
L1	1	100uH	7447231101	Würth Elektronik	WE-TI Radial Leaded Wire Wound Inductor, size 1018, 100uH, 2.6A, 0.09Ohm	
L2	1	1.1mH	B82720K2202N040	TDK	Common Mode Chokes Dual 1.1mH 10kHz 2A 0.065Ohm DCR Thru-Hole Automotive Box	PTH4
Q1	1	65 V	BC846B,215	NXP Semiconductor	Transistor, NPN, 65 V, 0.1 A, SOT-23	SOT-23
Q3	1	IPP65R225C7	IPP65R225C7XKSA1	Infineon Technologies	MOSFET, N-CH, 650 V, 11 A, TO-220AB	TO-220AB
R1	1	2.5	BN-LG08Y2R5MYB	Bourns	NTC Thermistor, In-Rush Current Limiting, 2.5 ohm, 4 A, 8 mm Disc, BN-LG08Y Series	RADIAL
R2	1	10	560112132039	Wuerth	RES, 10.0, 1%, 0.25 W, 1206	1206
R3, R4, R8, R9	4	2.00Meg	560112132025	Wuerth	RES, 2.00 M, 1%, 0.25 W, 200V, 1206	1206
R5	1	2.49	RC0805FR-072R49L	Yageo America	RES, 2.49, 1%, 0.125 W, 0805	805
R6	1	10m	WSLP2010R0100FEA	Vishay	10 mOhms ±1% 2W Chip Resistor 2010 (5025 Metric) Anti-Sulfur, Automotive AEC-Q200, Current Sense, Moisture Resistant, Pulse Withstanding Metal Element	2010

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R7, R12, R22, R23, R24, R26	6	10k	560112116005	Würth Electronics	10 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur Thick Film	603
R11	1	22.1	CRCW080522R1FKEA	Vishay-Dale	RES, 22.1, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R13	1	60.4k	RC0603FR-0760K4L	Yageo	RES, 60.4 k, 1%, 0.1 W, 0603	603
R14	1	1.00k	5.60112E+11	Wuerth	RES, 1.00 k, 1%, 0.1 W, 0603	603
R15	1	0.2	CRM2512-FX-R200ELF	Bourns	RES, 0.2, 1%, 2 W, 2512	2512
R16	1	6.81k	RC0603FR-076K81L	Yageo	RES, 6.81 k, 1%, 0.1 W, 0603	603
R17	1	100k	560112116004	Würth Electronics	100 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Anti-Sulfur Thick Film	603
R18, R25	2	220k	560112116066	Wuerth	RES, 220 k, 1%, 0.1 W, 0603	603
R19	1	3.30k	560112116047	Wuerth	RES, 3.30 k, 1%, 0.1 W, 0603	603
R21	1	10.5k	RC0603FR-0710K5L	Yageo	RES, 10.5 k, 1%, 0.1 W, 0603	603
R27	1	324	RC0603FR-07324RL	Yageo	RES, 324, 1%, 0.1 W, 0603	603
R28	1	2.21k	RC0603FR-072K21L	Yageo	RES, 2.21 k, 1%, 0.1 W, 0603	603
T1	1	Transformer	PQ3220 (see test report)	TDK	Flyback Transformer	PTH_XFRMR_34MM032MM0
U2	1	UCC287505DBVR	UCC287505DBVR	Texas Instruments	Current-Mode Flyback Controller with Secondary-Side Regulation (SSR) for Off-Line Applications	SOT23-6
U3	1	SFH6156-2T	SFH6156-2T	Vishay-Semiconductor	Optocoupler, 5.3 kV, 63-125% CTR, SMT	SMD, 4-Leads, Body 4.83x6.81mm, Pitch 2.54mm
U4	1	TL103WBIDR	TL103WBIDR	Texas Instruments	Dual, 36-V 1.2-MHz low-offset-voltage operational amplifier with internal reference 8-SOIC -40 to 125	SOIC8

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