


**PMP22764 REV B Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C27	1	22pF	C0603C220J5GACTU	Kemet	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C22	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C16	1	220pF	C1608C0G2E221J080AA	TDK	CAP, CERM, 220 pF, 250 V, +/- 5%, C0G/NP0, 0603	0603
C20	1	470pF	885012206081	Würth Elektronik	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
C29	1	1000pF	885012206083	Würth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C28	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	0603
C25, C31	2	0.1uF	885012206071	Würth Elektronik	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C26	1	0.22uF	C1608X7R1E224K080AC	TDK	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
C21	1	0.01uF	QMK212B7103KG-T	Taiyo Yuden	CAP, CERM, 0.01 uF, 250 V, +/- 10%, X7R, 0805	0805
C15	1	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C6, C11, C17	3	0.22uF	UMK212B7224KG-T	Taiyo Yuden	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 0805	0805
C18, C23, C30	3	1uF	TMK212B7105KG-T	Taiyo Yuden	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
C12	1	56uF	EEH2C1J560P	Panasonic	CAP, Polymer Hybrid, 56 uF, 63 V, +/- 20%, 30 ohm, 10x10 SMD	10x10
C7, C8, C9, C10	4	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C2, C3, C4, C13, C14	5	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C1, C24	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V, +/- 10%, X7R, 1812	1812
C5	1	47uF	EEH2C1V470P	Panasonic	CAP, Polymer Hybrid, 47 uF, 35 V, +/- 20%, 60 ohm, 6.3x5.8 SMD	6.3x5.8
D1	1	200V	PDU620-13	Diodes Inc.	Diode, Ultrafast, 200 V, 6 A, PowerDI5	PowerDI5
D2, D4	2	200V	ES2DA-13-F	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 2 A, SMA	SMA
D3, D5	2	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
D6	1	39V	MMSZ5259B-7-F	Diodes Inc.	Diode, Zener, 39 V, 500 mW, SOD-123	SOD-123
D7	1	5.1V	MMSZ5231BS-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
D8	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1	1	3.3uH	XEL5050-332MEB	Coilcraft	Shielded Power Inductor, 3.3uH, ±20%, 7.8A, 14.6mΩ max	SMT_IND_5MM48_5MM28
L2	1	330nH	LPS4012-331MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 330 nH, 3 A, 0.03 ohm, SMD	LPS4012
Q1	1	100V	CSD19531Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 16 A, DQJ0008A (VSONP-8)	DQJ0008A
Q100	1	20 V	FMMT718TA	Diodes Inc.	Transistor, PNP, 20 V, 1.5 A, SOT-23	SOT-23
R5, R6, R7, R17	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	20	CRCW060320R0JNEA	Vishay-Dale	RES, 20, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8	1	301	CRCW0603301RFKEA	Vishay-Dale	RES, 301, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16, R25	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R26	1	2.32k	CRCW06032K32FKEA	Vishay-Dale	RES, 2.32 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R18, R23	2	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R20, R21	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15	1	29.4k	CRCW060329K4FKEA	Vishay-Dale	RES, 29.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R24	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19	1	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12	1	324k	CRCW0603324KFKEA	Vishay-Dale	RES, 324 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R22	1	49.9k	CRCW080549K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R1	1	10k	RC1210JR-0710KL	Yageo	RES, 10 k, 5%, 0.5 W, 1210	1210
R10	1	0.008	PMR50HZPFU8L00	Rohm	RES, 0.008, 1%, 1 W, 2010	2010
R14	1	39k	CRCW201039K0JNEF	Vishay-Dale	RES, 39 k, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R2, R4	2	68	CRCW251268R0JNEG	Vishay-Dale	RES, 68, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
T1	1		ZB1368-AL	Coilcraft	Flyback Transformer EFD25 12 Pins input:18-30Vin, output:56/1.25A, Aux:10.6V	PTH_XFRMR_33MM02_26MM75

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U1	1		LM51551DSSR	Texas Instruments	2.2-MHz Wide Input Nonsynchronous Boost, Sepic, Flyback Controller, DSS0012B (WSON-12)	DSS0012B
U2	1		VOS617A-7X001T	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	7x2.12x2.6mm
U3	1		TL431LIAIDBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DBZ0003A (SOT-23-3)	DBZ0003A
C19	0	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
R11	0	75	CRCW201075R0JNEF	Vishay-Dale	RES, 75, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010

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