

## PMP5163 REVg BOM

COUNT	RefDes	Value	Description
2	C1, C2	.1u	Capacitor, Leaded, Metalized Film, 400 VDC, 125C, 20 ±%
1	C10	0.47u	Capacitor, Ceramic, 10V,,X7R, 10%
1	C12	1000p	Capacitor, Ceramic, 25V, X7R,10%
2	C14, C16	1.0u	Capacitor, Ceramic, 25V, X7R, 10%
1	C15	4.7u	Capacitor, Ceramic, 25V, X7R, 10%
2	C3, C4	2.2u	Capacitor, Ceramic, 100V, X7R, 20%
1	C5	0.01uF	Capacitor, Leaded, 400V, Metalized Film, 125C, 20 +/-%
1	C6A	1.0u	Capacitor, Ceramic, 250V, X7R, 20%
	C6B	1.0u	Capacitor, Aluminum, 250V, 105C, +/-20%
1	C7	270p	Capacitor, Ceramic, 25V,X7R,10%
4	C8, C9, C11, C13	.01u	Capacitor, Ceramic, 25V, X7R, 10%
1	D2	BAS21-03W	Diode, High-Speed Switching, 250-mA, 200-V
1	D3	MURA120	Rectifier, Ultrafast Power, 200V 1A
1	D4	HD04	Bridge Rectifier, 400V, 0.8A, Glass Passivated, SMD
1	D5	12V	Diode, Zener, 12V, 20mA, 225mW, 5%
2	D7, D8	15V	Diode, Zener, 15V, 20mA, 225mW, 5%
1	F1A	CIQ 1	Fuse, Fast-Acting 1A,125VAC
	F1B	MCRW1A	Fuse 1A, Subminiature Fast Acting
2	L1, L3	470u	Inductor, Radial TH Low-Medium Power, 300 mA
1	L2A	1500uH	Inductor, Power Choke ±20%
	L2B	1500uH	Inductor, Filter Choke, ±10%
1	Q1	FCX558TA	Transistor, PNP High Voltage, VCE -400V, IC 200mA
1	Q2	FQT4N25	MOSFET, N-ch, 250V, 830mA, 1750-milliOhms, 2.5W
1	Q3	3906	Bipolar, PNP, 40V, 200mA, 350mW
1	Q4	FQT1N60CTF	MOSFET, N-ch, 600V, 200mA, 11.5 Ohms, 2.1W
1	R11	20K	Resistor, Chip, 1/16W,1%
2	R12, R14	100K	Resistor, Chip, 1/16W, 1%
1	R15	4.22K	Resistor, Chip, 1/16W, 1%
1	R16	4.64k	Resistor, Chip, 1/16W,1%
1	R17	150k	Resistor, 1/4 watt, ± 5%
1	R18	5.49k	Resistor, Chip, 1/16W,1%
1	R19	54.9k	Resistor, Chip, 1/16W, 1%
1	R1A10	33	Resistor, 1/2W, 5%
	R1B20	33	Res, Power Metal Oxide Film, 1W, 5 ±%
1	R2	249	Resistor, Metal Film, 1/4 watt, ± 5%
1	R20	1k	Resistor, power metal oxide film, 1kOhms, 2W, 5%
1	R21	29.4k	Resistor, Chip, 1/16W, 1%
1	R22	499	Resistor, 1/4 watt, ± 5%
1	R23	300	Resistor, 1/4 watt, ± 5%
1	R3	1k	Resistor, 1/4 watt, ± 5%
1	R4	5.11K	Resistor, Chip, 1/16W, 1%

1	R5	301K	Resistor, 1/4 watt, ± 5%
1	R6	10	Resistor, Chip, 1/16W, 1%
1	R7	4.12K	Resistor, Chip, 1/16W, 1%
2	R8, R10	1.5	Resistor, 1/2W, 5%
2	R9, R13	10K	Resistor, Chip, 1/16W, 1%
4	TP1, TP2, TP3, TP4	STD	Test Point, 0.050 Hole
1	TP5	5001	Test Point, Black, Thru Hole Color Keyed
1	U1	TPS92001DGK	IC, Economy Primary-Side Controller, xx-V Startup
1	U2	TL331KDBV	IC, COMPARATOR, DIFFERENTIAL, SINGLE
1	--		PCB, 2.4 In x 1.285 In x 0.062 In

Size	Part Number	Mfr	DK
0.310 x 0.310 inch	B32529D6104M or B32559C6104M	Epcos	495-1246-ND (5% version) N/A
0603	STD	muRata, TDK, Vishay, etc.	
0603	std	muRata, TDK, Vishay, etc.	
0805	std	muRata, TDK, Vishay, etc.	
1206	std	muRata, TDK, Vishay, etc.	
1210	C3225X7R2A225M	TDK	445-4498-1-ND
3.0 x 7.2 mm	B32529C6103M or B32559C6103M	Epcos	495-1224-ND (5%) 495-2868-ND (10%)
2220	C5750X7R2E105M or GRM55DR72E105KW01L	TDK, Murata	490-3550-1-ND 445-4532-1-ND
6.3mm dia	UPW2E010MED	NICHICON	493-2018-ND
0603	std	muRata, TDK, Vishay, etc.	
0603	std	muRata, TDK, Vishay, etc.	
SOD-323	BAS21-03W	Infineon	BAS21-03WE6327INCT-ND
403D	MURA120T3	On Semi	MURA120T3GOSCT-ND
MINI DIP4	HD04-T	Diodes, Inc	HD04DITR-ND
SOT23	MMBZ5242BLT1	Motorola	MMBZ5242BLT1GOSCT-ND
SOT23	MMBZ5245BLT1	Motorola	MMBZ5245BLT1GOSCT-ND
1206	CIQxx	Bel	507-1077-1-ND
0.125 Dia	MCRW1A	Bussmann	283-2074-ND
0.283 Dia. inch	22R474C	muRata	811-1292-ND
12.00 x 12.00 mm	7447709152	WE	[Newark] 08P2774
10.50 mm Dia	7447480152	WE	
SOT89	FCX558TA	Zetex	FCX558CT-ND
SOT223	FQT4N25	FAIRCHILD	FQT4N25TF-ND
SOT23	STD	STD	
SOT223	FQT1N60C	FAIRCHILD	FQT1N60CTF_WSCT-ND
0603	Std	Std	
0603	Std	Std	
0603	Std	Std	
0603	Std	Std	
1206	Std	Std	
0603	Std	Std	
0603	Std	Std	
1210	Std	Std	
2.8 x 9.00 mm	ERG-1SJ330	Panasonic	P33W-1BK-ND
1206	Std	Std	
0.670 x 0.217 inch	ERG-2SJ102	PANASONIC	P1.0KW-2BK-ND
0603	Std	Std	
1206	Std	Std	
1206	Std	Std	
1206	Std	Std	
0603	Std	Std	

1206	Std	Std	
0603	Std	Std	
0603	Std	Std	
1210	Std	Std	
0603	Std	Std	
	STD	STD	
0.100 x 0.100 inch	5001	Keystone	
DGK8	TPS92001DGK	TI	296-11402-5-ND
SOT_23_5 (DBV)	TL331KDBV	TI	296-23863-1-ND
	PMP5163G	Any	

**NOTE**

For operation at or below 105C can use  
B32529C3104M (DK 495-2532-ND) or  
B32559C3104M (DK 495-2859-3-ND)

For operation at or below 105C can use  
B32529C3103M (DK 495-2527-ND)

Use either C6A or C6B

Use either C6A or C6B

Use either F1A or F1B

Use either F1A or F1B

Use either L2A or L2B

Use either L2A or L2B

Use either R1A or R1B

Use either R1A or R1B

Can still use 3W, ERG-3SJ102 (P1.0KW-  
3BK-ND)

NOT NEEDED IN PRODUCTION
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