

PMP3029D BOM

Date: 01/21/2009

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1	1000pF	Capacitor, Ceramic Disc, 250WV, 1000pF, Y5U ±20%	0.236 x 0.315	ECKNVS102MB	
1	C2	0.1uF	Capacitor, Leaded, 0.10 uF, 275 VAC, X2	6x18mm	B81130-C1104-Mxxx	
2	C3	390U	Capacitor, Aluminum Electrolytic, 400V, [temp], [tol]	1.18 dia * 1.575 inch	ECO-S2GP390DA	Panasonic
	C4	390U	Capacitor, Aluminum Electrolytic, 400V, [temp], [tol]	1.18 dia * 1.575 inch	ECO-S2GP390DA	Panasonic
	C5	1000pF	Capacitor, Ceramic Disc, 250WV, 1000pF, Y5U ±20%	0.236 x 0.315	ECKNVS102MB	
1	C6	0.1 uF	Capacitor, Polyester, 0.1uF, 400V, 10%	0.670 X 0.295 inch	ECQ-E4104KZ	Panasonic
4	C7	.1u	Capacitor, Ceramic, 25-V, [temp], [tol]	0603	STD	muRata
	C8	.1u	Capacitor, Ceramic, 25-V, [temp], [tol]	0603	STD	muRata
1	C9	3.3u	Capacitor, Ceramic, 50V, [temp], [tol]	1210	Std	Vishay
1	C10	330uF	Capacitor, Aluminum Electrolytic, 35V	0.315 inch	35ZL330 10X16	Rubycon
	C11	.1u	Capacitor, Ceramic, 25-V, [temp], [tol]	0603	STD	muRata
	C12	.1u	Capacitor, Ceramic, 25-V, [temp], [tol]	0603	STD	muRata
1	C13	.1u	Capacitor, Ceramic, 250V, [temp], [tol]	1206	GRM42-6yyyxxxKvv	muRata
1	C14	22p	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	tdk
1	C15	10u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata
1	C16	330p	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	tdk
2	C17	1u	Capacitor, Ceramic, 10V, [temp], [tol]	0805	std	muRata
	C18	1u	Capacitor, Ceramic, 10V, [temp], [tol]	0805	std	muRata
1	C19	.1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata
2	C20	.01u	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	tdk
1	C21	open	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	tdk
1	C22	27u	Capacitor, Aluminum Electrolytic, 10V	0.197 inch	10ZL27 5X7	Rubycon
	C23	.01u	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	tdk
1	C24	100p	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	tdk
1	C25	1000pF	Capacitor, Ceramic Disk, 0.001-uF, 500VAC	0.72	440LD10	Vishay-Sprague
1	C26	3.3uF	Capacitor, Ceramic, 16V, [temp], [tol]	0805	GRM40yyyyxxxKvv	muRata
1	C27	100pF	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C28	0.1uF	Capacitor, Ceramic, 250V, X7R, 15%	1206	Std	TDK
1	C29	0.1uF	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C30	330uF	Capacitor, Aluminum, 16-V, FKSeries	0.335 x 0.374	EEVFK1C331P	Panasonic
1	C31	0.022F	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C32	560uF	Capacitor, Aluminum Electrolytic, 6.3V	0.315 inch	06.3ZL560 8X11.5	Rubycon
1	C33	10uF	Capacitor, Ceramic, 10-uF, 6.3-V, X5R, 15%	1210	Std	TDK
1	C34	470pF	Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%	0603	Std	TDK
1	C35	0.47uF	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C36	100pF	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C37	3300pF	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C38	100pF	Capacitor, Ceramic, 50-V, COG, 5%	0603	Std	TDK
2	C39	10uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	TDK
1	C40	1000pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK
1	C41	1.0uF	Capacitor, Ceramic, 25-V, X7R, 15%	0805	Std	TDK
1	C42	0.01uF	Capacitor, Ceramic, 50-V, X7R, 15%	0603	Std	TDK
1	C43	470pF	Capacitor, Ceramic, 50V, COG, 5%	0603	Std	TDK
	C44	10uF	Capacitor, Ceramic, 25V, X7R, 15%	1210	Std	TDK
1	C45	.1u	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK
1	C46	220p	Capacitor, Ceramic, 25-V, [temp], [tol]	0603	std	muRata
1	C47	.1U	Capacitor, Ceramic, 25-V, [temp], [tol]	0603	std	muRata
1	D1	GBU604	Diode, Bridge Rectifier, 6 A, 400V	0.880 x 0.140 inch	GBU604	Fairchild
4	D2	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
2	D3	MURS160	Diode, Rectifier, 1-A, 600V	SMB	MURS160	on semi
	D4	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
1	D5	MUR1640CT	Diode, Dual Ultrafast Rectifier, 200V, 20A	TO-220	MUR2020CT	On Semi
	D6	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
1	D7	MURS160	Diode, UltraFast Rectifier, 1-A, 600-V	SMB	MURS120T3	On Semi
	D8	MURS160	Diode, Rectifier, 1-A, 600V	SMB	MURS160	on semi
	D9	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
6	D10	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
	D11	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
	D12	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
1	D13	MBRS360	Diode, Schottky, 3A, 60V	SMC	MBRS360	Fairchild
1	D14	US1M-13	Diode, UltraFast Rectifier, 1-A, 1000-V	SMB	US1M-13	Std
1	D15	MURA140	Diode, Schottky, xx-mA, yy-V	SMA	STD	STD
1	D16	BAS16	Diode, Switching, 10-mA, 85-V, 350-mW	SOT23	BAS16	Vishay-Liteon
	D17	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
	D18	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
	D19	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon
1	D20	12v	Diode, Zener, 12-V, yy-mA, zz-mW, q%	SOT23	MMBZ5242BLT1	Motorola
1	D21	10v	Diode, Zener, 10-V, yy-mA, zz-mW, q%	SOT23	MMBZ5240BLT1	Motorola
1	F1	6A SLOW/250V	Fuse, TR5 Series, 6 slow, 250V	0.335	370 1400 041	Wickmann
1	J1	B3P-VH	Connector, Top 3-pin, 156 mil spacing,	0.465 X 0.335 inch	B3P-VH	JST

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2	J2	B2P-VH	Connector, Top Entry 2-pin, 156 mil spacing,	0.465 X 0.370 inch	B2P-VH	JST
1	J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
	J4	B2P-VH	Connector, Top Entry 2-pin, 156 mil spacing,	0.465 X 0.370 inch	B2P-VH	JST
1	L1	1 mH	Inductor, Common Mode choke,	1.400 x 0.820 inch	GVTM1-102	GCI
1	L2	G074396LF	Inductor,	1.063 inch Dia.	G074396LF	GCI
1	L3	330uH	Inductor, SMT, 68-uH, 2-A, 0.06-ohm	0.492 sq"	DR74-331	Coiltronics
2	Q1	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23		
2	Q2	IRF840A	MOSFET, N-ch, 500-V, yy-A, .85-milliOhms	TO-220V		
2	Q3	3906	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23		
	Q4	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23		
	Q5	IRF840A	MOSFET, N-ch, 500-V, yy-A, .85-milliOhms	TO-220V		
	Q6	3906	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23		
3	Q7	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002DICT	Vishay-Liteon
	Q8	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002DICT	Vishay-Liteon
1	Q9	SI2319DS	MOSFET, P-ch, 40V, yy-A, 120-milliOhms	SOT23		STD
1	Q10	SI2319DS	MOSFET, P-ch, 40V, 2.3-A, 130-milliOhms	SOT23	SI2319DS-T1-E3	Vishay
1	Q11	IRFBE20	MOSFET, N-ch, 800-V, 1.8-A, 6500-milliOhms	TO-220V	IRFBE20	IR
	Q12	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002DICT	Vishay-Liteon
1	Q13	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23	STD	STD
1	R1	200k	Resistor, Chip, 1/8-W, yy%	1206	Std	Std
1	R2	200k	Resistor, Chip, 1/8-W, yy%	1206	Std	Std
2	R3	4.99	Resistor, Chip, 1/16W, yy%	0603	Std	Std
2	R4	100	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
	R5	4.99	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R6	100	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
1	R7	open	Resistor, Chip, 1/8W, yy%	1206	Std	Std
1	R8	20k	Resistor, Chip, 1/8W, yy%	1206	Std	Std
2	R9	0.15	Resistor, Chip, 1/8W, yy%	1206	Std	Std
	R10	0.15	Resistor, Chip, 1/8W, yy%	1206	Std	Std
6	R11	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R12	1.5k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R13	1k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
	R14	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R15	49.9k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
2	R16	1k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
1	R17	100k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
	R18	1k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
1	R19	1k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
1	R20	4.99k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R21	205k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R22	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R23	24.9k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R24	8.66k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
1	R25	75k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R26	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
5	R27	1k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R28	10k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std
1	R29	33.2k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R30	1k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
2	R31	100K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R32	0.05	Resistor, Chip, 1/10W, yy%	0805	Std	Std
1	R33	1.0K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R34	100K	Resistor, Chip, 1/8W, 1%	1206	Std	Std
3	R35	100K	Resistor, Chip, 1/10W, yy%	0805	Std	Std
	R36	100K	Resistor, Chip, 1/10W, yy%	0805	Std	Std
1	R37	0	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
	R38	100K	Resistor, Chip, 1/10W, yy%	0805	Std	Std
	R39	100K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R40	10.0K	Resistor, Chip, 1/10-W, 1%	0805	Std	Std
1	R41	0	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R42	30.1K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
	R43	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R44	6.04K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R45	37.4K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R46	49.9	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R47	4.99K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R48	10	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R49	10.0K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
2	R50	2.49K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R51	16.2K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std

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COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	R52	1	Resistor, Chip, 1W, 1%	2512	Std	Std
	R53	1k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R54	2.00K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R55	1K	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R56	1k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
3	R57	1K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R58	499	Resistor, Chip, 1/16W, yy%	0603	Std	Std
1	R59	9.53K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
	R60	1K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
	R61	1K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
	R62	10k	Resistor, Chip, 1/16W, yy%	0603	Std	Std
	R63	2.49K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	RT1	25	Thermistor, NTC,25 - 1 Ohms, 2.4-A	0.45 x 0.17	CL-190	Thermometrics
1	T1	G034251	Transformer, Gate Drive	0.520 x 0.530	G034251	GCI
1	T2	G074397LF	Transformer, Forward	1.260 x 1.260 inch	G074397LF	GCI
1	T3	G024154	Transformer, 2 Primary, 1Secondary, Custom	0.717 x 0.630	G024154	GCI
5	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
3	TP2	5012	Test Point, 0.062 Hole	0.250 inch	5012	Keystone
	TP3	5012	Test Point, 0.062 Hole	0.250 inch	5012	Keystone
	TP4	5012	Test Point, 0.062 Hole	0.250 inch	5012	Keystone
3	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
15	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP11	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP12	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP13	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP14	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP15	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP16	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP17	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP18	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP19	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP20	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP21	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP22	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP23	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP24	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP25	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP26	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	U1	UCC3813-1D	IC, Low-Power BiCMOS Current-mode PWM, Von = xx V	SO8	UCC3813-1D	TI
2	U2	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI
3	U3	H11A817B	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180	H11A817B	QT Optoelectronics
1	U4	TLC272CD	IC, Precision Dual Operational Amplifiers	SO8	TLC272CD	TI
1	U5	TPS40200D	IC, Low Cost Sync Buck Controller	SO-8	TPS40200D	TI
1	U6	UCC3813-2D	IC, BiCmos, Low Power Current Mode, PWM Controller	SO8	UCC3813-2D	TI
	U7	H11A817B	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180	H11A817B	QT Optoelectronics
	U8	H11A817B	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180	H11A817B	QT Optoelectronics
	U9	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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