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PMP9622A

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
C1	1	open	CAP, CERM,250V, +/-10%, X7R, 1206	1206	STD	STD		
C2, C30	2	.1u	CAP, CERM,250V, +/-10%, X7R, 1206	1206	STD	STD		
C3	1	560uF	CAP, AL, 560uF, 200V, +/-20%, 0.355 ohm, TH	CAPR, 22x30mm, TH	EET-HC2D561BA	Panasonic		
C4, C5, C7, C8, C13, C14, C25, C33	8	.1u	Capacitor, Ceramic, .1-uF, 50V, [temp], [tol]	0603	std	muRata		
C6	1	0.1uF	Capacitor, Leaded, 0.10 uF, 275 VAC, X2	6x18mm	B81130-C1104-Mxxx			
C9	1	.1u	CAP, CERM, 250V, +/-10%, X7R, 1206	1206	STD	STD		
C10	1	160u	Capacitor, Aluminum, 50V, [temp], [tol]	0.315 inch	50ZL160 10X12.5	Rubycon		
C11, C12	2	1u	CAP, CERM,50V, +/-10%, X7R, 1206	1206	STD	STD		
C15	1	68u	Capacitor, Aluminum Electrolytic, 6.3V	0.197 inch	6.3ZL68 5X7	Rubycon		
C16, C24	2	1u	Capacitor, Ceramic,16-V, [temp], [tol]	0805	std	PANASONIC		
C17	1	.01u	Capacitor, Ceramic, .1-uF, 50V, [temp], [tol]	0603	std	muRata		
C18	1	1u	Capacitor, Ceramic, 16-V, [temp], [tol]	0805	std	muRata		
C19	1	1000p	Capacitor, Ceramic, 50-V, [temp], [tol]	0603	std	muRata		
C20	1	.1u	Capacitor, Ceramic, 25V, [temp], [tol]	0603	STD	muRata		
C21	1	100p	Capacitor, Ceramic, 50-V, [temp], [tol]	0603	std	muRata		
C22, C26	2	.47u	Capacitor, Ceramic, 0.47uF, 16-V, [temp], [tol]	0805	std	muRata		
C23	1	1u	Capacitor, Ceramic Chip, 25V, ±10%	0805	STD	STD		
C27, C31, C39	3	.1u	Capacitor, Ceramic Chip, 25V, ±10%	0805	STD	STD		
C28	1	620p	Capacitor, Ceramic, 50-V, [temp], [tol]	0603	std	muRata		
C29	1	15p	Capacitor, Ceramic, 50-V, [temp], [tol]	0603	std	muRata		
C32, C34	2	.1u	Capacitor, Ceramic Chip, 50V, ±10%	0603	STD	STD		
C35	1	56u	Capacitor, Aluminum Electrolytic, 10V	0.197 inch	10ZL56 5X7	Rubycon		
C36	1	1uF	CAP, CERM, 16V, +/-10%, X5R, 0402	0402	STD	STD		
C37	1	4700pF	Capacitor, Ceramic Disc, 250VV, 4700pF, Y5U ±20%	0.236 x 0.315	DE2E3KY472MA2BM01	Panasonic		
C38	1	10p	Capacitor, Ceramic, .1-uF, 50V, [temp], [tol]	0603	std	muRata		
C40	1	2.2uF	CAP, CERM, 2.2uF, 25V, +/-10%, X7R, 0805	0805	GRM21BR71E225KA73L	MuRata		
C100	1	.01u	Capacitor, Ceramic Chip, 50V, ±10%	0603	STD	STD		
D1, D2, D7, D8, D11, D12, D13, D14, D15, D16	10	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon		
D3	1	100V	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123	1N4148W-7-F	Diodes Inc.		
D4	1	GBU604	Diode, Bridge Rectifier, 6 A, 400V	0.880 x 0.140 inch	GBU604	Fairchild		
D5, D6	2	200V	Diode, Ultrafast, 400V, 1A, SMA	SMA	ES1G-13-F	Diodes Inc.		
D9, D10	2	MUR1640CT	Diode, Dual Ultrafast Rectifier,400V, 20A	TO-220	MUR1640CT	On Semi		
D17	1	15V	Diode, Zener, 15V, 225mW, SOT-23	SOT-23	MMBZ5245BLT1G	ON Semiconductor		
D18	1	82V	DIODE ZENER 82V 500MW SOD123	SOD-123	MMSZ5268BT1G	ON Semiconductor		
D19, D22	2	30V	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23	BAT54-7-F	Diodes Inc.		
D20	1	600V	Diode, Ultrafast, 600V, 1A, SMA	SMA	MURA160T3G	ON Semiconductor		
D21, D24	2	1.4V	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323	BAS316,115	NXP Semiconductor		
D23	1	0.85V	Diode, Schottky, 100V, 1A, SMA	SMA	SS110-TP	Micro Commercial Component		
D25	1	BAS 16	Diode, Switching, 200mA, 100V, 300mW	SOT23	BAS16	Vishay-Liteon		
F1	1	6A SLOW/250V	Fuse, TR5 Series, 6 slow, 250V	0.335	370 1400 041	Wickmann		
J1	1	703W-00/54	Connector, AC Board mount, 9mm	1.97 x 0.79 inch	703W-00/54	Qualtek Electronics		
J2	1	ED120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED120/2DS	OST		
J3	1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST		
L1	1	3.3mh	Inductor, Common Mode Choke,	1.400 x 0.820 inch	GVTM1-332	GCI		
L2	1	47uH	Inductor, Drum Core, ?, 47uH, 9A, 0.024 ohm, SMD	850x1100mil	RL-1256-3-47	Renco Electronics		
Q1, Q3, Q8, Q10	4	IPB600N25N3	MOSFET, N-ch,300-V, yy-mA, 32-milliOhms	SMD-220	IPB600N25N3	STD		
Q2, Q4, Q7, Q9	4	3904	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23	STD	STD		
Q5, Q6, Q11, Q12, Q14	5	3906	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23				
Q13, Q15	2	3904	Trans, NPN, xx-V, yy-mA, zz-W	SOT23	MMBT3904LT1G	On Semi		
Q16	1	0.4V	Transistor, NPN, 400V, 1A, TO-92	TO-92	PHE13003A,126	NXP Semiconductor		
R1	1	200k	Resistor, Chip, 1/8-W, yy%	1206	Std	Std		
R2	1	200k	Resistor, Chip,1/8-W, yy%	1206	Std	Std		
R3, R4, R8, R9, R13	5	100	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R5	1	30.1	Resistor, Chip, 1/16W, x%	805	Std	Std		
R6, R7	2	40.2k	RES, 1%, 0.25W, 1206	1206	STD	STD		
R10, R12, R14	3	10k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R11	1	4.99k	Resistor, Chip,1/16-W, yy%	0603	Std	Std		
R15	1	82.5k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R16, R23, R35, R37	4	4.99k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R17, R46	2	499	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R18	1	2k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R19	1	15.0k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R20, R22, R27, R31, R32	5	2.49K	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R21	1	82.5k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R24	1	41.2k	Resistor, Chip, 1/16W, x%	805	Std	Std		
R25	1	4.02k	Resistor, Chip,1/16-W, yy%	0603	Std	Std		
R26	1	2k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R28	1	1.50K	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R29	1	20k	Resistor, Chip, 1/16W, x%	0603	Std	Std		
R30	1	TBD	Resistor, Chip, 1/16W, x%	0603	Std	Std		
R33	1	7.5k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R34	1	100	RES, 1%, 0.125W, 0805	0805	STD	STD		
R36, R38, TBD1	3	1k	Resistor, Chip, 1/16W, x%	0603	Std	Std		
R39	1	20	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R40, R41	2	.025	Resistor, xx milliOhm, 1W, yy%	2512	STD	STD		
R42	1	23.1k	Resistor, Chip, 1/16W, x%	0603	Std	Std		
R43	1	102	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R44	1	80.6k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R45	1	1.00k	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R47	1	21.0K	Resistor, Chip, 1/16-W, yy%	0603	Std	Std		
R48	1	4.7	RES, 5%, 0.125W, 0805	0805	STD	STD		
T1	1	330uH	Transformer, 1:100	0.330 x 0.360 inch	P8208T	Pulse		
T2	1		Transformer, TH	1730x1390x1830mil	RL-10679	Renco Electronics		

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T3, T4	2	1800 uH	Transformer, Gate Driver	0.340 X 0.355 inch	PA2002NL	Pulse		
T5	1	2.50mH	Transformer, 2.5mH, SMT	9.78x10.54x9.14mm	750314445	Würth Elektronik eiSos		
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP14, TP16	14	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
TP13	1	Red	Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone		
TP15	1	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone		
TP17, TP18	2	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone		
U1	1		Micropower 150 mA Low-Noise Ultra Low-Dropout Regulator, 5-pin SOT-23	MF05A	LP2985AIM5-3.3	National Semiconductor		
U2	1	UCC37324D	IC, Dual 4-A High Speed Low-Side Power MOSFET Drivers	SO-8	UCC37324D	TI		None
U3	1	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBVZ	TI		None
U4	1	UCC3895DW	IC, Bi CMOS Advanced Phase Shift PWM Controller		UCC3895DW	TEXAS INSTRUMENTS		
U5	1	H11A817B	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180	H11A817B	QT Optoelectronics		
U6	1	TLC272CD	IC, Precision Dual Operational Amplifiers	SO8	TLC272CD	TI		None
U7	1		CONSTANT-VOLTAGE, CONSTANT-CURRENT CONTROLLER WITH PRIMARY SIDE REGULATION, D0007A	D0007A	UCC28720D	Texas Instruments		None
U8	1	OPA376DBV	IC, Precision, Low Noise, Low Quiescent Current Op-Amp	SOT23-5	OPA376DBV	TI		None

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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