

PMP2214_REVf BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1, C24	100uF	Capacitor, Aluminum, 16V, 20%	0.260 x 0.276 inch	EEVFK1C101P	Panasonic
2	C100, C101	1000pF	Capacitor, Ceramic, 2kV, C0G	1812	Std	Std
2	C102, C103	0.047uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
2	C11, C34	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C15	470pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
2	C16, C19	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
2	C17, C40	0.22uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
4	C18, C21, C41, C42	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
8	C2, C3, C4, C5, C25, C26, C27, C28	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
1	C22	4.7uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
3	C23, C39, C43	0.47uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C474M	TDK
1	C36	100pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
1	C44	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
4	C6, C7, C29, C30	180uF	Capacitor, Aluminum SP, 6.3-V, 20%	7343	EEFSE0J181R	Panasonic
11	C8, C10, C12, C13, C14, C20, C31, C33, C35, C37, C38	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
2	C9, C32	0.1uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E104M	TDK
12	D1, D2, D3, D4, D5, D8, D9, D10, D11, D12, D13, D14	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
1	D100	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
2	D101, D102	10V	Diode, Zener, 18-V	SOT23	BZX84C18LT1	ON Semiconductor
2	D15, D16	5.1V	Diode, Zener, 5.1-V	SOT23	BZX84C5V1LT1	ON Semiconductor
1	J1	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609	OST
2	J2, J3	{value}	Terminal Block, 2-pin, 32-A, 9.5mm	0.75 x 0.49 inch	ED1981	OST
2	L1, L2	PA2097NL	IND, Output	1200 x 1210 inch	PA2097NL	Pulse
12	Q1, Q2, Q3, Q4, Q5, Q6, Q17, Q18, Q19, Q20, Q21, Q22	Si7386DP	MOSFET, NChan, 30V, 19A, 7milliohm	PWRPAK S0-8	Si7386DP	
8	Q11, Q12, Q13, Q27, Q28, Q29, Q100, Q101	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
7	Q14, Q15, Q16, Q30, Q31, Q32, Q33	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q34	MMBT3904	Bipolar, NPN, 40-V, 200-mA, 225-W	SOT23	MMBT3904LT1	On Semiconductor
2	Q7, Q23	IRF6216	MOSFET, P-ch, 150-V, 2.2-A, 240-milliOhms	SO8	IRF6216	International Rectifier
4	Q9, Q10, Q25, Q26	Si7846DP	MOSFET, NChannel, 150V, 6.7A, 50 milliohm	PWRPAK S0-8	Si7846DP	Vishay-Siliconix
2	R1, R28	0.001	Resistor, Chip, 1W, 5%	2512	Std	Std
2	R12, R39	61.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	1MEG	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14, R24	2.49k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R15, R20, R45, R46	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R16, R21, R49	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R17, R102, R103	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R18, R43	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R2, R10, R29, R37	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R23	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

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1	R26	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	249	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R3, R6, R30, R33	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R36	4.02k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R38	110k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R4, R5, R31, R32	0.05	Resistor, Chip, 1W, 5%	2512	Std	Std
1	R42	200	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R44	DNP	Do Not Populate	0603	N/A	N/A
3	R7, R11, R34	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
11	R8, R19, R22, R25, R35, R40, R41, R47, R48, R100, R101	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	3.83k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	T1, T2	PA2096NL	XFMR, Forward	1200 x 1210 inch	PA2096NL	Pulse
6	TP1, TP3, TP5, TP7, TP8, TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP2, TP4, TP6, TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
2	U1, U4	UCC2891D	IC, Current Mode Active Clamp PWM Controller	SO16	UCC2891D	TI
1	U2	TL103WAID	IC, Dual OpAmp With Internal Reference	SO8	TL103WAID	TI
2	U3, U5	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay

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