

PMP4113_REVf BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	1000pF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
1	C100	1000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C11	100uF	Capacitor, POSCAP	0.138 x 0.110 inch	6TPB100M	Sanyo
5	C12, C14, C15, C22, C23	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	Std	Std
4	C2, C3, C5, C103	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
2	C24, C101	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
3	C25, C102, C301	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C26	10uF	Capacitor, Ceramic, 16V, X5R, 15%	0805	Std	Std
2	C300, C302	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C303	3300pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H332K	TDK
2	C304, C306	0.1uF	Capacitor, Ceramic, 0.1uF, 16V, X5R	0603	Std	Std
1	C305	4.7uF	Capacitor, Ceramic, 6.3V, X5R	0603	C1608X5R0J475KT	TDK
1	C4	0.1uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E104M	TDK
1	C6	27uF	Capacitor, Aluminum, 100V, ZL Series	0.315 inch	25V ZL 100uF	Rubycon
1	C8	100uF	Capacitor, Aluminum, 25V, ZL Series	0.200 * 0.435 inch	25V ZL 100uF	Rubycon
2	C9, C10	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
1	D1	MURS360T3	Diode, 3A, 600V	SMC	MURS360T3	ON Semi
1	D101	5.6V	Diode, Zener, 5.6-V	SOT23	BZX84C5V6LT1	ON Semiconductor
1	D2	MURA120T3	Diode, Rectifier, 1A, 200V	SMA	MURA120T3	ON Semiconductor
3	D3, D5, D6	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
1	D4	MBRS3100	Diode, Schottky, 3-A, 100-V	SMC	MBRS3100T3	On Semi
3	J1, J2, J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	1.8uH	Inductor, SMT Power, 2.2A, 23milliohm	0.260 x 0.175 inch	VLCF5028T-1R8N2R2-2	TDK
1	L2	10uH	Inductor, SMT, 4.3A, 25milliohm	0.402 x 0.394 inch	VLF10045T-100M4R3	TDK
1	Q1	FDS6910	MOSFET, Dual Nch, 30V, 7.5A, 13milliohm	SO8	FDS6910	Fairchild
1	Q100	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	Q101	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q2	SI7450DP	MOSFET, NChan, 200V, 5.3A, 80milliohm	PWRPAK S0-8	SI7450DP	Vishay-Siliconix
1	R1	20k	Resistor, Chip, 1-W, 1%	2512	Std	Std
1	R100	7.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R101	3.32k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R104, R300	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14, R200	0.18	Resistor, Chip, 1-W, 1%	2512	Std	Std
1	R20	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R201	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R22, R102, R103	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	49.9k	Resistor, Chip, 1/8W, 1%	1206	Std	Std
1	R27	1.62k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R3	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R302	150	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R303	2.15k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R305	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
5	R4, R21, R24, R301, R304	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	55 uH	Transformer, Flyback	1.040 x 1.280 inch	DCT25EFD-U31S005	TDK
3	TP1, TP2, TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
3	TP3, TP4, TP6	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	UCC2809P-2	IC, Economy Primary-Side Controller	DGK8	UCC2809P-2	TI
1	U300	TPS40193DRC	IC, 300kHz Sync. Buck controller	DRC10	TPS40193DRC	TI
1	U4	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U5	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI

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