

Filename: PMP5515 REV_C_bom.xls

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PMP5515 REV_C BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK
	C2	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK
1	C3	150uF	Capacitor, Aluminum Electrolytic, 25V	0.248 inch	EKZM250ELL151MF11D	Nippon Chemi-Con
4	C7	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C8	150uF	Capacitor, Aluminum Electrolytic, 10V	0.197 inch	EKZM100ELL151ME11D	Nippon Chemi-Con
1	C9	33uF	Capacitor, Aluminum, 10V, ±20%	0.201 x 0.262 inch	EMVS100ADA330ME46G	Nippon Chemi-Con
1	C10	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226MT	TDK
2	C11	220uF	Capacitor, Aluminum Electrolytic, 6.3V	0.197 inch	EKZM6R3ELL221ME11D	Nippon Chemi-Con
	C12	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C13	470pF	CAP 250VAC CERAMIC Y2/X1	0.236 x 0.315 inch	ECK-NVS471KB	Panasonic
1	C14	10pF	Capacitor, Ceramic, 50V, C0G, 10%	0603	STD	STD
	C15	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C16	47uF	Capacitor, Aluminum Electrolytic, 35V	0.248 inch	STD	Rubycon
	C17	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C18	0.015uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C19	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C20	4700pF	Capacitor, Ceramic, 500V, X7R, 10%	1206	Std	Std
2	C21	4.7uF	Capacitor, Aluminum, 400V	0.315 inch	UVR2G4R7MPD	Nichicon
	C22	4.7uF	Capacitor, Aluminum, 400V	0.315 inch	UVR2G4R7MPD	Nichicon
1	C23	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	std
1	C25	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
1	C26	68uF	Capacitor, Alum, 16V, 20%	0.200 x 0.210 inch	EEEFK1C680AP	Panasonic
	C100	220uF	Capacitor, Aluminum Electrolytic, 6.3V	0.197 inch	EKZM6R3ELL221ME11D	Nippon Chemi-Con
1	D2	MBRS190T3	Diode, Schottky, 1-A, 90-V	SMB	MBRS190T3	ON Semi
2	D3	MBRA140LT3	Diode, Schottky, 1-A, 40-V	SMA	MBRA140LT3	ON Semi
1	D4	RH06-T	Diode, Bridge, 0.5-A, 600-V	MiniDIP	RH06-T	Diodes
1	D5	MURA160T3	Diode, Rectifier, 1A, 600V	SMA	MURA160T3	ON Semiconductor
	D6	MBRA140LT3	Diode, Schottky, 1-A, 40-V	SMA	MBRA140LT3	ON Semi
3	D7	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	D8	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
1	D9	25V	Diode, Zener, 25V, 10-mA	SOD-123	MMSZ5253BT1G	On Semi
	D10	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
	D11	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	D100	24V	Diode, Zener, 24-V, 350-mW	SOT-23	BZX84C24LT1	ON Semi
1	D101	10V	Diode, Zener, 10-V, 350-mW	SOT-23	BZX84C10LT1	ON Semi
4	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J2	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J3	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST

	J4	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	L1	1mH	Inductor, Power, 0.25A, 3.4 Ohms	0.350 x 0.300 inch	RFB0807-102L	Coilcraft
1	L2	10uH	Inductor, Power, 3A	0.350 x 0.300 inch	RFB0807-100L	Coilcraft
1	Q1	FQD2N60C	MOSFET, N-ch, 600V, 1.9A, 4.7 ohm	DPAK	FQD2N60C	Fairchild
1	Q2	MMBT2222A	TRANSISTOR, NPN, HIGH-PERFORMANCE, 500mA	SOT-23	MMBT2222A	Fairchild
1	R1	432k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	221k	Resistor, 1/4 watt, 5%	1206	Std	Std
2	R3	3MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R4	10	Resistor, Fusible Power, 1W	0.300 X 0.100 inch	NFR0100001009JR500	Vishay
1	R5	66.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R6	3MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R7	2.2	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R8	169k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R9	10	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R10	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	51.1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R13	DNP	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R15	68.1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R16	6.04k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	20k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
	R18	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R19	665k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
1	R20	221k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
2	R21	100k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
	R22	100k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
1	R23	100	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay
1	R24	12.1k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R25	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R26	2.15k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	249	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T2	570 uH	Xfmr, ±10%	20.50 x 25.00 mm	760871834	WE
3	TP1	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP2	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
4	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP6	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	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	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS76201DBV	IC, Micro-Power 100 mA LDO Regulator	SOT23-5	TPS76201DBV	TI
1	U2	UCC28610D	IC, Flyback Green-Mode Controller	SO8	UCC28610D	TI
1	U3	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay
2	U4	TLV431A	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431AIDBZ	TI
	U5	TLV431A	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431AIDBZ	TI
1	U6	TLV1117	IC, vvV, 800mA LDO Voltage Regulators	SOT-223	TLV1117CDCR	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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