

Filename: PMP5568 - 350W PSU - MCU CARD REVB\_bom.xls

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## PMP5568 - 350W PSU - MCU CARD REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1, C2, C6, C11, C19, C22, C24, C26, C28, C5	100nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C101	1nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
2	C12, C13	22uF	Capacitor, Ceramic, 6.3V, X5R, 15%	1210	Std	Std
8	C14, C15, C16, C17, C18, C23, C25, C27	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
2	C20, C21	10uF	Capacitor, Ceramic, 6.3V, X5R, 15%	0603	Std	Std
2	C3, C4	4.7uF	Capacitor, Ceramic, 25V, X5R, 15%	1206	Std	Std
1	C7	22pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
1	C8	22nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
2	C9, C10	open	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std
1	D1	MBRM120	Diode, Schottky, 1A, 20V	457-04	MBRM120E	On Semi
1	D2	MA2SD10	Diode, Schottky, 200mA, 20V	0.047 x 0.031 inch	MA2SD10	Panasonic
1	D3	Red	Diode, LED, THT, 3mm, red	T1-3/4	TLHR4400	Vishay
5	J2, J3, J4, J5, J10	PEC05SAAN	Header, Male 5-pin, 100mil spacing,	0.100 inch x 5	PEC05SAAN	Sullins
3	J6, J7, J8	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	J9	PEC10DAAN	Header, Female, 2x10-pin, 100mil spacing	0.100 inch x 10 x 2	SSW-110-01-T-D	Samtec
1	L1	4.7uH	Inductor, 0.7A	0.126 x 0.098 inch	VLF3010AT-4R7MR70	TDK
1	L2	100uH	Inductor, SMT, 253mOhm, 1.2A sat, 1.1A rms	0.402 x 0.394 inch	MSS1048-104ML	Coilcraft
1	Q1	BSS138	MOSFET, Nch, 50V, 0.22A, 3.5 Ohm	SOT23	BSS138	Fairchild
1	R1	82.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R10, R21, R25, R26	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R101	3.32k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
5	R13, R17, R18, R19, R20	681	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R14, R15, R16	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	20.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R22, R23, R24	100	Resistor, Chip, 1/4 watt, 1%	1206	Std	Std
7	R27, R28, R29, R30, R43, R45, R46	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

1	R3	432k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R31	27.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R32	20k	Potentiometer, Single turn Cermet, Open-frame, 2mm SMT, Top-Adjust	0.087 x 0.108 inch	3302W-3-203E	Bourns
1	R33	22.1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R34	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R35	NTC	NTC, 100k, 5%	1206	NCP18WF104J03RB	muRata
1	R36	4.75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R37, R38	1.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R4, R11, R12, R39	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R40, R44	5.11k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R41	25.5k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R42	33.2	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	29.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	5.62k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	34.8k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	open	Resistor, Chip, 1/16W, 1%	0805	Std	Std
4	S1, S2, S3, S4	B3J-2100	Switch, SPST NO Single LED 5VDC, 1mA	12x18 mm	B3J-2100	Omron
2	TP1, TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
11	TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20		Thru Hole, 15 mil, plated			
1	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	EADIP162	LCD MODULE, 2x16, 6.68mm	26.8 x 68.0mm	DIP162J-DN3LW	Electronic Assembly
1	U2	MSP430F2252RHA	IC, Mixed Signal Microcontroller	QFN-40	MSP430F2252RHA	Texas Instruments
1	U3	TPS54140DGQ	IC, DC-DC Converter With Eco-Mode, 1.5A, 42V	MSOP-10	TPS54140DGQ	Texas Instruments
1	U4	TPS715345DCKR	IC, High Input Voltage, Micropower	SOP-5 (DCK)	TPS715345DCKR	Texas Instruments

- 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.