

PMP5725 RevB BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
2	C10 C18	56uF	Capacitor, Aluminum Electrolytic, 35V	0.248 inch	35V ZL 56uF 6.3 X 11	Rubycon
2	C11-12	1000u	Capacitor, Aluminum, 10V, ±20%	10x12mm	EEEFK1A102P	Panasonic
1	C13	470u	Capacitor, Aluminum, 10V, ±20%	8x10mm	EEEFK1A471P	Panasonic
4	C1-4	1uF	Capacitor, Poly Film 1250V, ±10%	28x42 mm	B32656	Epcos
1	C15	100p	Capacitor, Ceramic, 500V, COG, 10%	1206	STD	STD
1	C16	DNP	Do Not Populate	0603	N/A	N/A
3	C17 C19 C25	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C20	100p	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
3	C21 C23-24	47u	Capacitor, Ceramic, 10V, X5R, 10%	1812	C4532X5R1A476M	TDK
1	C22	47n	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	TDK
1	C5	10nF	Capacitor, Ceramic, 500V, X7R, 10%	1206	STD	STD
1	C6	680uF	Capacitor, Aluminum Electrolytic, 35V	0.492 inch	EEUFC1V681L	Panasonic
1	C7	100uF	Capacitor, Aluminum Electrolytic, 35V	0.492 inch	EKZM350ELL101MF11D	Nippon
2	C8 C14	100n	Capacitor, Ceramic, 50V, X7R, 10%	1206	C1608X7R1H104K	STD
1	C9	1n	Capacitor, Ceramic, 100V, X7R, 10%	1206	STD	STD
2	D1-2	US1K-13	Diode, Rectifier, 1A, 800V	SMA	US1K-13	Diodes Inc
1	D3	ES3C	Diode, Rectifier, Trr 20 ns, Vrrm 150V, 3A	DO-214AB	ES3C	Fairchild
1	D4	ES1D	Diode, Super Fast Rectifier, 200V, 1A	0.220 x 0.115 inch	ES1D	Diodes
1	D5	MBRB2060CTG	Diode, Schottky Barrier Rectifier, 20A, 60V	D2PAK	MBRB2060CTG	Diodes
1	D6	RED	Diode, LED, Red, 2.1-V, 20-mA, 6-mcd	0603	Std	Lite On
1	D7	BZX84C13	Diode, Zener, 13-V, 100-mA, 300-mW, 5%	SOT23	BZX84C13	OnSemi
1	D8	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
1	D9	DNP	Diode, Schottky, 0.5A, 30V	SOD-123		On Semi
1	HS1	FK25110LF	Heatsink, SMT	13x15 mm	FK 251 10LF	Fischer Elektronik
1	HS2	(Value)	Heatsink, TO-220/218 veritcal	0.640 x 0.640 inch		Wakefield
1	J1	OSTT7022150	Terminal Block, 2-pin, 32-A, 9.5mm	0.75 x 0.49 inch	OSTT7022150	OST
2	J2-3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
2	L1 L3	4.7uH	Inductor, Power, 5A	0.350 x 0.300 inch	744 772 047	WE
1	L2	DNP	Inductor, Power, 5A	0.350 x 0.300 inch	RF80807-2R2L	Coilcraft
1	Q1	MMBT2222A	TRANSISTOR, NPN, HIGH-PERFORMANCE, 500mA	SOT-23	MMBT2222A	Fairchild
1	Q2	STW3N150	Trans, Nchan, 1500V, 3A, 6 ohm, 2.5A	TO-247	STW3N150	ST
1	Q3	PZT2907A	Transistor, PNP, 60-V, 800-mA, 1000-mW	SOT-223	PZT2907A	Fairchild
1	Q4	MMBT3906LT1G	Trans, PNP, xx-V, yy-mA, zz-W	SOT23	MMBT3906LT1G	On Semi
1	R1	4.7	Resistor, 2512 1W, 5%	2512	Std	STD
1	R13	0	Resistor, Chip 1/4 watt, ±1%	1206	Std	STD
2	R15 R30	6k8	Resistor, Chip 1/4 watt, ±1%	1206	Std	STD
1	R16	68	Resistor, 1W, 2%	2512	Std	STD
1	R17	2	Resistor, Chip 1/4 watt, ±1%	1206	Std	STD
1	R18	1k	Resistor, Chip 1/4 watt, ±1%	1206	Std	STD
2	R19 R38	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R20	330	Resistor, 1W, 2%	2512	Std	STD
1	R21	178k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	3.3	Resistor, Chip, 1/10W, 1%	0805	Std	STD
1	R23	0	Resistor, 2512 1W, 5%	2512	Std	STD
1	R24	56k2	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R2-5	51k	Resistor, Metal Film, 1±%, 0.5-W,	1.300 X .210 inch	Std	STD
2	R25 R45	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R26	68k1	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	4k99	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R28	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R29	DNP	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R31	DNP	Resistor, 2512 1W, 5%	2512	Std	STD
3	R32 R34-35	1k	Resistor, Metal Film, 1±%, 0.5-W,	1.300 X .210 inch	Std	STD
1	R33	1k24	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R36	24k9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R37	2k49	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R39 R41-42	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R40	56k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R43	5k6	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R44	20k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
8	R6-12 R14	2MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
4	SCR1-4		Through Hole for Screw #4 plated			
1	T1	700 uH	Transformer, ±10%	1.043 x 1.320 inch	195259-A	Kaschke
13	TP1-8 TP10-14	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP9	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	UCC28610D	IC, Flyback Green-Mode Controller	SO8	UCC28610D	TI
1	U2	TL431DBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431DBZ	TI
1	U3	TLV431CDBZR	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431CDBZR	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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