

PMP2693_REVC BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
4	C1	3.3uF	Capacitor, Ceramic, 4.7-uF, 50-V, X7R, 10%	1210	C3225X7R1H335K	TDK
	C2	3.3uF	Capacitor, Ceramic, 4.7-uF, 50-V, X7R, 10%	1210	C3225X7R1H335K	TDK
	C3	3.3uF	Capacitor, Ceramic, 4.7-uF, 50-V, X7R, 10%	1210	C3225X7R1H335K	TDK
	C4	3.3uF	Capacitor, Ceramic, 4.7-uF, 50-V, X7R, 10%	1210	C3225X7R1H335K	TDK
5	C7	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	Std	TDK
1	C8	0.1uF	Capacitor, Ceramic, Low Inductance, 50V, [temp], [tol]	0603		TDK
1	C9	10uF	Capacitor, Ceramic, 10V, X5R, 15%	0805	Std	TDK
5	C10	1.0uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
	C11	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	Std	TDK
	C12	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	Std	TDK
	C13	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	Std	TDK
	C14	0.1uF	Capacitor, Ceramic, 16V, X7R, 15%	0402	Std	TDK
2	C15	560pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	TDK
	C16	1.0uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
1	C17	4.7uF	Capacitor, Ceramic, 6.3V, X7R, 15%	0603	Std	TDK
2	C18	4.7nF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	TDK
2	C19	22pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	TDK
	C20	560pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	TDK
	C21	4.7nF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	TDK
	C22	22pF	Capacitor, Ceramic, 50V, X7R, 15%	0402	Std	TDK
2	C23	150uF	Capacitor, POSCap, 8V, 20%, 3A, 15mOhm	7343 (D)	EEFUE0K151R	Panasonic
	C24	150uF	Capacitor, POSCap, 8V, 20%, 3A, 15mOhm	7343 (D)	EEFUE0K151R	Panasonic
	C25	1.0uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
2	C26	47pF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
2	C27	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK
	C28	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK
2	C29	0.1uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK
	C30	0.1uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	TDK
1	C31	68uF	Capacitor, Aluminum, 50VDC, ±20%, 68uF, 0.6A, 0.160Ohm	Code D8	EEFFPV680XAP	Panasonic
	C32	47pF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
	C33	1.0uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
	C34	1.0uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	TDK
1	C46	100pF	Capacitor, Ceramic, 22-pF, 50-V, X7R, 15%	0603	Std	TDK
1	C47	470pF	Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%	0603	Std	TDK
1	C48	0.1uF	Capacitor, Ceramic, 0.1-uF, 50-V, X7R, 15%	0603	Std	TDK
1	C49	100pF	Capacitor, Ceramic, 100-pF, 50-V, X7R, 15%	0603	Std	TDK
1	C50	.1uF	Capacitor, Ceramic, 22-pF, 50-V, X7R, 15%	0603	Std	TDK
1	C51	1nF	Capacitor, Ceramic, 100-pF, 50-V, X7R, 15%	0603	Std	TDK
2	C52	22uF	Capacitor, Ceramic, 22-uF, 16-V, X7R, 20%	1210	C3225X7R1C226M	TDK
1	C53	1.5nF	Capacitor, Ceramic, 560pF, 50-V, X7R, 15%	0603	Std	TDK
1	C54	10nF	Capacitor, Ceramic, 2.2nF, 50-V, X7R, 15%	0603	Std	TDK
1	C55	0.22uF	Capacitor, Ceramic, 0.22-uF, 50-V, X7R, 15%	0603	Std	TDK
	C56	22uF	Capacitor, Ceramic, 22-uF, 16-V, X7R, 20%	1210	C3225X7R1C226M	TDK

3	D1	MBR0540	Diode, Schottky, 0.5A, 40V	SOD-123	MBR0540	On Semi
	D2	MBR0540	Diode, Schottky, 0.5A, 40V	SOD-123	MBR0540	On Semi
	D3	MBR0540	Diode, Schottky, 0.5A, 40V	SOD-123	MBR0540	On Semi
1	D5	SS24	Diode, Schottky, 2000-mA, 40-V	SMB	SS24	Vishay
1	J1	1734172-x	Connector, xx mm DC Jack,	0.354 x 0.571 inch	1734172-x	Tyco
1	J4	5-532955-5	Header, 2x15-pin F, 0.100 inch	0.320 X 1.758 inch	5-532955-5	Tyco
1	J5	6-102802-5	Header, Shrouded, 2 x10 RA, 100mil pitch	0.762 x 1.300 inch	6-102802-5	Tyco
2	L1	12 uH	Inductor, SMT, 5.6A, 28milliohm	0.492 x 0.492 inch	SRR1280-120M	Bourns
	L2	12 uH	Inductor, SMT, 5.6A, 28milliohm	0.492 x 0.492 inch	SRR1280-120M	Bourns
1	L4	120 uH	Inductor, SMT, 1.95A, 200milliohm	0.492 x 0.492 inch	SRR1280-121K	Bourns
1	U2	LM317M	IC, Voltage Regulator, Positive, 0.5-A, Adj		LM317M	
	R13	0	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R14	0	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R15	0	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R28	1.5M	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R34	1.5M	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R23	3.74K	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R44	4.7K	Std	Resistor, Chip, 1/16W, x%	402	Std
1	R36	6.19K	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R16	10	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R26	10	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R19	10K	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R17	10.0K	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R21	23.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R31	23.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R29	33.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R33	33.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R27	35.7K	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R35	35.7K	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R25	39.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R22	43.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R32	43.2K	Std	Resistor, Chip, 1/16W, 1%	402	Std
2	R20	49.9	Std	Resistor, Chip, 1/16W, 1%	402	Std
	R30	49.9	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R24	93.1K	Std	Resistor, Chip, 1/16W, 1%	402	Std
1	R52	0	Std	Resistor, Chip, 0-Ohms, 1/16-W, 1%	603	Std
1	R54	1.0K	Std	Resistor, Chip, 2.2-Ohms, 1/16-W, 1%	603	Std
1	R41	1K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
1	R38	1k	Std	Resistor, Chip, 1/16W, 1%	603	Std
2	R59	1K	Std	Resistor, Chip, 46.4K-Ohms, 1/16-W, 1%	603	Std
	R62	1K	Std	Resistor, Chip, 46.4K-Ohms, 1/16-W, 1%	603	Std
1	R50	2.55k	Std	Resistor, Chip, 68.1-Ohms, 1/16-W, 1%	603	Std
1	R37	2.61k	Std	Resistor, Chip, 1/16W, 1%	603	Std
1	R48	2.80K	Std	Resistor, Chip, 2.87K-Ohms, 1/16-W, 1%	603	Std
2	R42	4.7K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
	R43	4.7K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
2	R3	5.23K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
	R6	5.23K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
2	R2	10K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std

	R8	10K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
2	R57	10K	Std	Resistor, Chip, 48.7K-Ohms, 1/16-W, 1%	603	Std
	R58	10K	Std	Resistor, Chip, 48.7K-Ohms, 1/16-W, 1%	603	Std
1	R55	16.5K	Std	Resistor, Chip, 48.7K-Ohms, 1/16-W, 1%	603	Std
1	R40	23.7K	Std	Resistor, Chip, 1/16W, 0.1%	603	Std
1	R49	46.4K	Std	Resistor, Chip, 46.4K-Ohms, 1/16-W, 1%	603	Std
1	R51	49.9	Std	Resistor, Chip, 49.9-Ohms, 1/16-W, 1%	603	Std
1	R56	68.1K	Std	Resistor, Chip, 68.1K-Ohms, 1/16-W, 1%	603	Std
1	R53	0.05	CRCW1206-xxxx-F	Resistor, Chip, 1/8W, 1%	1206	Vishay
16	TP23	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP25	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP26	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP28	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP30	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP31	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP1	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP3	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP4	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP5	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP6	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP7	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP8	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP9	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP10	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP11	5000	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
6	TP24	5001	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP27	5001	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP29	5001	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP12	5001	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP13	5001	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
	TP14	5001	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	Keystone
1	U3	TPS3808GxxDBVR	TPS3808GxxDBVR	IC, Low Quiescent Current, Programmable vv-V, Delay Ti	SOT23-6	TI
1	U1	TPS40140RHH	TPS40140RHH	IC, 2 Phase, Stackable Controller	QFN-36	TI
1	U4	TPS40200D	TPS40200D	IC, Low Cost Sync Buck Controller	SO-8	TI
2	Q1	FDS6982AS	FDS6982AS	MOSFET, Dual Nch, 30V, 8.6A/6.3 Q2/Q1,	SO8	Fairchild
	Q2	FDS6982AS	FDS6982AS	MOSFET, Dual Nch, 30V, 8.6A/6.3 Q2/Q1,	SO8	Fairchild
1	Q5	MMBT3904TT1	MMBT3904TT1	Bipolar, NPN, 40V, 200mA, 200mW	SC-75	On Semi
1	Q3	MMBT3906LT1	MMBT3906LT1	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23	On Semi
1	Q4	NDS9407	NDS9407	MOSFET, PChan, -60V, -4A, 150millohm	S0-8	Fairchild

- 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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