

## PMP4709REVC BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr	AREA
3	C2	22uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	Std	Std	
	C3	22uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	Std	Std	
	C4	22uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	Std	Std	
1	C6	220uF	Capacitor, Aluminum, 600mA@100kHz, 160mOhm	0.328 x 0.328 inch	EEEFK1E231P	Panasonic	
1	C7	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	
1	C8	330nF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std	
1	C9	2.7nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	
1	C14	1uF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std	
2	C15	470uF	Capacitor, SP-CAP, 2.0V, 3.0A rms, 9mOhm	7343(D)	EEFSX0D471ER	Panasonic	
	C16	470uF	Capacitor, SP-CAP, 2.0V, 3.0A rms, 9mOhm	7343(D)	EEFSX0D471ER	Panasonic	
1	C18	18pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	
2	C19	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
	C20	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
1	C29	1nF	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std	
1	C30	1.5nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	
1	C31	47nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	
2	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609-ND	DIGIKEY	
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609-ND	DIGIKEY	
4	J3	PTC36SAAN	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins	
	J4	PTC36SAAN	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins	
	J5	PTC36SAAN	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins	
	J6	PTC36SAAN	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins	
2	J7	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	
	J8	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	
1	L1	2.2uH	Inductor, SMT, 7.2mOhm, 6.6A sat (20%), 6.6A rms (20deg)	0.402 x 0.394 inch	MSS1048-222NLC	Coilcraft	
1	Q1	CSD16409Q3	MOSFET, NChan, 25V, 12.4mOhm@4.5V, 5.6nC@4.5V	QFN3.3x3.3 mm	CSD16409Q3	TI	
1	Q4	CSD16323Q3	MOSFET, NChan, 25V, 5.5mOhm@4.5V, 8.4nC@4.5V	QFN3.3x3.3 mm	CSD16323Q3	TI	
4	Q7	NTA4153N	MOSFET, N-Ch 20V, 915 mA, ESD Protection	SC-75	NTA4153N	On Semi	
	Q8	NTA4153N	MOSFET, N-Ch 20V, 915 mA, ESD Protection	SC-75	NTA4153N	On Semi	
	Q9	NTA4153N	MOSFET, N-Ch 20V, 915 mA, ESD Protection	SC-75	NTA4153N	On Semi	
	Q10	NTA4153N	MOSFET, N-Ch 20V, 915 mA, ESD Protection	SC-75	NTA4153N	On Semi	
2	R1	3.3	Resistor, Chip, 1/16W, 1%	0603	Std	Std	
1	R2	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	
1	R3	66.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	

2	R4	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	1	Resistor, Chip, 1/8W, 5%	1206	Std	Std
	R6	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	5.76k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R8	3.3	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	1.05k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R10	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	453k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	226k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	113k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	56.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	60.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R18	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	SH1		Short jumper			
3	TP1	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
2	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP3	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
	TP4	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
2	TP6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS40303DRC	IC, 3V-20V sync. Buck controller, 300kHz	DRC10	TPS40303DRC	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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