

PMP5098_REVC BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR
4	C101, C201, C301, C401	47pF	Capacitor, Ceramic, 50V, X7R, 10%, 0603	0603	std	std
4	C102, C202, C302, C402	1500pF	Capacitor, Ceramic, 50V, X7R, 10%, 0603	0603	std	std
4	C103, C203, C303, C403	10nF	Capacitor, Ceramic, 50V, X7R, 10%, 0603	0603	std	std
0	C104, C204, C304, C404	DNP		0603		
0	C105, C106, C205, C206, C305, C306, C405, C406	DNP		0603		
8	C107, C108, C207, C208, C307, C308, C407, C408	1uF	Capacitor, Ceramic, 16V, X7R, 10%, 0805	0805	std	std
8	C109, C110, C209, C210, C309, C310, C409, C410	100nF	Capacitor, Ceramic, 25V, X7R, 10%, 0603	0603	std	std
7	C111, C113, C211, C213, C311, C411, C413	22uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	std	std
4	C112, C212, C312, C412	4.7nF	Capacitor, Ceramic, 25V, X7R, 10%, 0603	0603	std	std
9	C114, C115, C116, C214, C215, C314, C315, C414, C415	47uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	GRM32ER60J476M	Murata
2	C3, C5	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, X7R, 10%	0603	std	std
1	C4	220pF	Capacitor, Ceramic, 50-V, NPO, 5%	0603	std	std
1	D1	BAT54HT1	Diode, Schottky, 200-mA, 30-V	SOD323	BAT54HT1	On Semi
1	D2	GREEN	Diode, LED, Green Clear, 20mcd	0.079 X 0.049	LTST-C170CKT	Lite On
1	J1	BSE-040-01-L-D-A	Connector, F, 80 pin, SMT, Vertical Header, .8 mm pitch	4.158 x 36.00 n	BSE-040-01-L-D-A	Samtec
0	J109, J209, J309, J409	DNP				
1	J2	MPS-08-7.70-01-L-\	Connector, Powerstrip F, 8 pin	10.16 x 4.755 n	MPS-08-7.70-01-L-	Samtec
1	L101	1.5uHY	Inductor, SMT, 7.2A, 20.7milliohm	0.204 x 0.216 ir	IHLP2020CZER1 R5M01 PCMC053T- 1R5MN	Vishay Susumu
2	L201, L401	2.2uHY	Inductor, SMT, 5.8A, 29.2milliohm	0.204 x 0.216 ir	IHLP2020CZER2 R2M01 PCMC053T- 2R2MN	Vishay Susumu
1	L301	2.2uHY	Inductor, SMT, 3.25A, 68milliohms	0.160 X 0.175 i	PCMB042T- 2R2MS	Vishay Susumu
5	Q1, Q103, Q203, Q303, Q403	2N7002K	MOSFET, Nch, 60V, 300 mA, 2-Ohms	SOT23	2N7002K	Vishay
3	Q101, Q102, Q202, Q201, Q301, Q302, Q401, Q402	CSD16411Q3	MOSFET, NChan, 25V, 14A, 12 milliOhm	QFN3.3x3.3 mr	CSD16411Q3	TI[Ciclon]
5	R102, R202, R103, R203, R302, R303, R403	CSD16301Q2	Trans, Nch, 25V, [TBD] A, 24milliohm	SuperSOT-6	CSD16301Q2	TI
2	R102, R202	12.1k, 0.1%	Resistor, Chip, 1/16W, 0.1%, 0603	0603	std	std
5	R103, R203, R302, R303, R403	10k, 0.1%	Resistor, Chip, 1/16W, 0.1%, 0603	0603	std	std
4	R104, R204, R304, R404	1k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
1	R121	110k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
1	R120	11k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
4	R105, R205, R305, R405	10K	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
2	R106, R206	82	Resistor, Chip, 1/16W, 5%	0603	std	std
8	R107, R108, R207, R208, R307, R308, R407, R408	0	Resistor, Chip, 1/16W, 5%, 0603	0603	std	std
8	R109, R110, R209, R210, R309, R310, R409, R410	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
5	R111, R211, R311, R411, R412	36.5k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
2	R112, R219	10k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std

	R113, R213, R313,					
4	R413	18.2k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
1	R114	6.8	Resistor, Chip, 1/16W, 5%	0603	std	std
	R115, R215, R315,					
4	R415	10	Resistor, Chip, 1/16W, 5%, 0603	0603	std	std
1	R116	0.33	Resistor, Chip, 1/8W, 5%	1206	Std	Std
3	R216, R316, R416	1	Resistor, Chip, 1/8W, 5%	1206	Std	Std
	R117, R118, R217,					
	R218, R317, R318,					
8	R417, R418	49.9	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
1	R119	6.65k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
2	R2, R20	3.92k	Resistor, Chip, xx-Ohms, 1/16-W, 1%	0603	std	std
	R101, R201, R301,					
4	R401	2.49k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
1	R212	15.4k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
3	R214, R314, R414	10	Resistor, Chip, 1/16W, 5%	0603	std	std
2	R3, R4	10k	Resistor, Chip, xx-Ohms, 1/16-W, 1%	0603	std	std
2	R306, R406	0	Resistor, Chip, 1/16W, 5%	0603	std	std
1	R312	23.7k	Resistor, Chip, 1/16W, 1%, 0603	0603	std	std
1	R402	4.99k, 0.1%	Resistor, Chip, 1/16W, 0.1%, 0603	0603	std	std
1	R55	348	Resistor, Chip, 1/16W, 1%	0603	std	std
	TP1, TP2, TP101,					
	TP102, TP103,					
	TP104, TP105,					
	TP201, TP202,					
	TP204, TP301,					
	TP302, TP303,					
	TP304, TP401,					
	TP402, TP403,					
19	TP404, TP405	5015	Test Point, SMT	0.105 x 0.040 ir 5015		Keystone
	U101, U201, U301,		IC, 3.0V-20V PMBus Synchronous Buck Controller			
4	U401	TPS40400RHL	See note 5 below	QFN-24	TPS40400RHL	TI
1	U2	TLC555ID	IC, Timer, Low-Power CMOS	SO8	TLC555ID	TI
1	module label		"for Virtex-6 GTH PMP5098C S/N _____"			
1	ESD bag					
			"Xilinx P/N TBD / TI P/N PMP5098 C / Made in USA from foreign components" or "Made in <country of origin>"			
1	bag label					

- 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.
 5. **U101 & U201 must be revision 4.1 or later; U301 & U401 must be revision 4.0 or later**

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