

Filename: PMP4742 REV_E1_bom.xls

Date: 07/19/2010

PMP4742 REV_E1 BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR	Area
14	C1	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C2	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C3	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C4	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
4	C5	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0805	Std	Std	10560
1	C6	680pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
2	C7	open	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C8	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0805	Std	Std	10560
19	C9	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C10	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0805	Std	Std	10560
	C11	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C12	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C13	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
3	C14	0.47uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
4	C15	10uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	C3225X5R1E106M	TDK	83,600
3	C16	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	GRM32ER71H475KA8	Murata	83,600
	C17	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	GRM32ER71H475KA8	Murata	83,600
	C18	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	GRM32ER71H475KA8	Murata	83,600
2	C19	open	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std	15390
6	C20	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C21	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C22	100pF	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std	15390
1	C23	15pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C24	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C25	220pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std	5650
	C26	0.47uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
3	C27	47nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C28	Open	Capacitor, Ceramic, 10V, X5R, 10%	0603	STD	STD	5650
1	C29	100nF	Capacitor, Ceramic, 10V, X5R, 10%	0603	STD	STD	5650
3	C30	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C31	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C32	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C33	68pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
	C34	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C35	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C36	3.3nF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
1	C37	100pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
1	C38	1uF	Capacitor, Ceramic, 10V, X7R, 10%	0402	Std	Std	2800
	C39	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C40	0.1uF	Capacitor, Ceramic, 50V, X7R	0603	Std	TDK	5650
	C41	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C42	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C43	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C44	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0805	Std	Std	10560
	C45	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C46	10uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	C3225X5R1E106M	TDK	83,600

7	C47	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
13	C48	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C49	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C50	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C51	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C52	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
3	C53	4.7uF	Capacitor, Ceramic, 25V, X5R, 10%	0805	Std	Std	10560
1	C54	150pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
2	C55	22nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
2	C56	470pF	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std	15390
	C57	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
	C58	47nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	C59	0.22uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C60	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
2	C61	1nF	Capacitor, Ceramic, 1000pF, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK	5650
	C62	open	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
1	C63	330pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
	C64	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C65	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
	C66	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C67	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C68	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
	C69	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C70	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C71	10uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	C3225X5R1E106M	TDK	83,600
	C72	4.7uF	Capacitor, Ceramic, 25V, X5R, 10%	0805	Std	Std	10560
	C73	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
2	C74	Open	Capacitor, Ceramic, vvV, [temp], [tol]	0603	Std	Std	5650
	C75	47nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C76	open	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std	15390
	C77	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C78	1nF	Capacitor, Ceramic, 1000pF, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK	5650
	C79	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C80	open	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C81	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C82	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C83	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C84	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
1	C85	1uF	Capacitor, Ceramic, 1-uF, 16-V, X7R	0603	Std	Std	5650
	C86	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
2	C87	1uF	Capacitor, Ceramic, 1-uF, 16-V, X7R	0603	Std	Std	5650
	C88	1uF	Capacitor, Ceramic, 1-uF, 16-V, X7R	0603	Std	Std	5650
	C89	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C90	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C91	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
1	C92	0.01uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C93	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
1	C94	4.7nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C95	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C96	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
1	C97	47uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1206	Std	Std	15390

	C98	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C99	100pF	Capacitor, Ceramic, COG, 10%	0603	Std	Std	5650
1	C100	6.8nF	Capacitor, Ceramic, 0603	0603	Std	Std	5650
	C101	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C102	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C103	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C104	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C105	10uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	C3225X5R1E106M	TDK	83,600
	C106	10uF	Capacitor, Ceramic, X5R, 6.3V, 20%	0805	Std	Std	10560
	C107	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C108	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C109	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	C3225X5R0J107M	TDK	83,600
	C110	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C111	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226M	TDK	83,600
	C112	4.7uF	Capacitor, Ceramic, 25V, X5R, 10%	0805	Std	Std	10560
	C113	Open	Capacitor, Ceramic, vvV, [temp], [tol]	0603	Std	Std	5650
	C114	22nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C115	470pF	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std	15390
1	C116	47nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
	C117	0.47uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C118	open	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
	C119	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C120	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
2	C121	22uF	Capacitor, Ceramic, 6.3V, X5R, 15%	0805	Std	TDK	10560
	C122	22uF	Capacitor, Ceramic, 6.3V, X5R, 15%	0805	Std	TDK	10560
1	C123	1000pF	Capacitor, Ceramic, COG, 50V, 10%	0603	Std	Std	5650
3	C124	open	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
3	C200	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
2	C201	100pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
1	C202	100pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
	C203	100pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std	5650
	C204	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
	C205	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
3	D1	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
1	D2	MBRS340T3	Diode, Schottky, 3-A, 40-V	SMC	MBRS340T3	On Semi	95000
1	D3	MBRA340	Diode, Schottky, 3A, 40V	SMA	MBRA340	On Semi	29520
1	D4	BAT54C	Diode, Dual Schottky, 200-mA, 30-V	SOT23	BAT54C	Vishay-Liteon	14105
6	D5	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105
1	D6	BAT54S	Diode, Dual Schottky, 200-mA, 30-V	SOT23	BAT54S	Zetex	14105
	D7	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105
	D9	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
3	D10	MBR0540T	Diode, Schottky, 0.5A, 40V	SOD-123	MBR0540T	OnSemi	21500
	D12	MBR0540T	Diode, Schottky, 0.5A, 40V	SOD-123	MBR0540T	OnSemi	21500
2	D13	BAT54A	Diode, Dual Schottky, 300-mA, 30-V	SOT23	BAT54A	ST	14105
	D15	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay-Liteon	14105
	D16	MBR0540T	Diode, Schottky, 0.5A, 40V	SOD-123	MBR0540T	OnSemi	21500
	D200	BAT54A	Diode, Dual Schottky, 300-mA, 30-V	SOT23	BAT54A	ST	14105
	D201	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105
	D202	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105
	D203	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105
	D204	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon	14105

5	J1		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST	75525
	J2		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST	75525
	J3		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST	75525
	J4		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST	75525
6	J5	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
	J6	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
	J7	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
	J8	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
	J9	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
1	J10	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	ED1609	OST	148830
	J11		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST	75525
	J12	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
2	J13	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST	75525
	J14	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST	75525
11	JP1	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP2	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP3	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP4	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP5	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP6	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP7	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP8	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP9	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP10	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
	JP11	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins	20000
9	JPM1	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM2	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM3	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM4	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM5	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM6	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM7	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM8	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
	JPM9	PEC03SAAN	Header, Male 3-pin, 100mil spacing,	0.100 inch x 3	PEC03SAAN	Sullins	30000
3	L1	FB	Inductor, Ferrite Bead, 96 Ohm@100MHz, 10A, 1milliohm	0.484 x 0.484 inch	28F0121-1SR-10	Steward	269,336
6	L2	3.3uH	Inductor, SM Toroid, 5A, 20milliohms	0.287 x 0.287 inch	MSS7341-332NL	Coilcraft	112,000
1	L3	12uH	Inductor, Power, 5.18A, 27.3milliohm	0.484 x 0.484 inch	MSS1260-123ML	Coilcraft	269,336
	L4	3.3uH	Inductor, SM Toroid, 5A, 20milliohms	0.287 x 0.287 inch	MSS7341-332NL	Coilcraft	112,000
1	L5	47uH	Inductor, SMT, yyA, zzmilliohm	0.402 x 0.394 inch	MSS1038-xxxNX	Coilcraft	193,5
	L6	FB	Inductor, Ferrite Bead, 96 Ohm@100MHz, 10A, 1milliohm	0.484 x 0.484 inch	28F0121-1SR-10	Steward	269,336
	L7	3.3uH	Inductor, SM Toroid, 5A, 20milliohms	0.287 x 0.287 inch	MSS7341-332NL	Coilcraft	112,000
2	L8	4.7uH	Inductor, Power, 10.8A, 14milliohm	0.484 x 0.484 inch	MSS1260-472ML	Coilcraft	269,336
	L9	3.3uH	Inductor, SM Toroid, 5A, 20milliohms	0.287 x 0.287 inch	MSS7341-332NL	Coilcraft	112,000
1	L10	10uH	Inductor, SMT, 4.52Asat, 29milliohm	0.402 x 0.394 inch	MSS1038-103NL	Coilcraft	193,5
	L11	3.3uH	Inductor, SM Toroid, 5A, 20milliohms	0.287 x 0.287 inch	MSS7341-332NL	Coilcraft	112,000
	L12	FB	Inductor, Ferrite Bead, 96 Ohm@100MHz, 10A, 1milliohm	0.484 x 0.484 inch	28F0121-1SR-10	Steward	269,336
	L13	3.3uH	Inductor, SM Toroid, 5A, 20milliohms	0.287 x 0.287 inch	MSS7341-332NL	Coilcraft	112,000
	L14	4.7uH	Inductor, Power, 10.8A, 14milliohm	0.484 x 0.484 inch	MSS1260-472ML	Coilcraft	269,336
1	L1B1	1.65uH	Inductor, 1.65uH, 2.53milliOhm, 17Asat	0.504 x 0.504 inch	MVR1271C-162ML	Coilcraft	305,929
2	Q1	MMBT3906LT1	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23	MMBT3906LT1	On Semi	14105
	Q2	MMBT3906LT1	Bipolar, PNP, xx-V, yy-mA, zz-W	SOT23	MMBT3906LT1	On Semi	14105

1	Q3	Si3438DV	MOSFET, N-ch, 40-V, 7.4-A, 35.5-milliOhms	TSOP-6	Si3438DV	Vishay	19454
1	Q4	Si1300DL	MOSFET, Nch, 20V, 0.25A, 2 ohms	SOT323	Si1300DL	Vishay	14105
1	Q5	BSS84	MOSFET, Pch, -50V, -0.13A, 10 Ohm	SOT23	BSS84	Infineon	14105
2	Q6	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002	Diodes	14105
1	Q7	CSD16409Q3	MOSFET, NChan, 25V, 15A, 9.5 milliOhm	QFN3.3x3.3 mm	CSD16409Q3	TI	31200
1	Q8	CSD16406Q3	MOSFET, NChan, 25V, 19A, 5.9 milliOhm	QFN3.3X3.3mm	CSD16406Q3	TI	31200
	Q9	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002	Diodes	14105
1	R1	49.9	Resistor, Chip, 49.9 Ohms, 1/16W, 1%	0603	Std	Std	5650
3	R2	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R3	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R4	49.9K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R5	220K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
2	R6	100K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R7	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R8	68K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R9	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R10	78.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R11	14.0K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
6	R12	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
	R13	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R14	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
1	R15	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R16	150K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R17	15	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
4	R18	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
2	R19	open	Resistor, Metal Film, 1/4 watt, 1%	1206	Std	Std	20,000
1	R20	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
	R21	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R22	187k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R23	1K	Resistor, Chip, 1.00K Ohms, 1/16W, 1%	0603	Std	Std	9100
	R24	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R25	48.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R26	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R27	0.015	Resistor, Chip, 1/4W, 1%	1206	Std	Std	15390
1	R28	180K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
	R29	100K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R30	220k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R31	4.7K	Resistor, Chip, 10K Ohms, 1/16W, 1%	0603	Std	Std	5650
1	R32	10.7k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R33	1.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
6	R34	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R35	12K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
6	R36	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R37	22.1k	Resistor, Chip, 0603	0603	Std	Std	5650
	R38	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R39	4.7k	Resistor, Chip, 0603	0603	Std	Std	5650
	R40	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R41	12K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R42	100	Resistor, Chip, 0603	0603	Std	Std	5650
	R43	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R44	39K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650

	R45	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R46	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
4	R47	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R48	15	Resistor, 1/4 watt, $\pm 5\%$	1206	Std	Std	20000
2	R49	0.003	Resistor, Power Metal Strip, 1W, 1%	2010	WSL20103L000FEA	Vishay	30800
3	R50	4.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R51	56K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R52	82K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R53	63.4K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R54	4.7k	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5,650
	R55	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R56	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
2	R57	12K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
2	R58	22K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R59	1.82k	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5,650
1	R60	15K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R61	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R62	56K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R63	27K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
2	R64	3.3K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R65	120k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R66	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R67	1M	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R68	680K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
	R69	120k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R70	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
	R71	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R72	open	Resistor, Metal Film, 1/4 watt, 1%	1206	Std	Std	20,000
1	R73	0.008	Resistor, Power Metal Strip, 1W, 1%	2010	WSL20108L000FEA	Vishay	30800
	R74	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R75	3.57k	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5,650
1	R76	33K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R77	12K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
	R78	22K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R79	2.2K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R80	1.8k	Resistor, Chip, 1/16W, 5%	0603	Std	Std	5,650
	R81	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R82	4.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R83	120K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R84	68k	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R85	23.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R86	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
1	R87	820	Resistor, Chip, 0603	0603	Std	Std	5650
	R88	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R89	0	Resistor, Chip, 0-Ohms, 1/16-W, yy%	0603	Std	Std	5650
	R90	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R91	3.3	Resistor, Chip, 3.3-Ohms, 1/16-W, yy%	0603	Std	Std	5650
1	R92	0.002	Resistor, Power Metal Strip, 1W, 1%	2010	WSL20102L000FEA	Vishay	30800
1	R93	1	Resistor, Metal Film, 1/4 watt, $\pm 5\%$	1206	Std	Std	15390
1	R94	19.1k	Resistor, Chip, 0603	0603	Std	Std	5650
	R95	0	Resistor, Chip, 0-Ohms, 1/16-W, yy%	0603	Std	Std	5650

1	R96	10k	Resistor, Chip, 10k, 0603	0603	Std	Std	5650
1	R97	69.8k	Resistor, Chip, 0603	0603	Std	Std	5650
1	R98	8.2k	Resistor, Chip, 2.67k, 0603	0603	Std	Std	5650
1	R99	10k	Resistor, Chip, 0603	0603	Std	Std	5650
	R100	120K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R101	61.9K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R102	120	Resistor, Chip, 0603	0603	Std	Std	5650
1	R103	49.9	Resistor, Chip, 49.9 Ohm, 0603	0603	Std	Std	5650
	R104	22.1k	Resistor, Chip, 0603	0603	Std	Std	5650
	R105	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R106	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
1	R107	95.3K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R108	15	Resistor, Metal Film, 1/4 watt, 1%	1206	Std	Std	20,000
	R109	0.003	Resistor, Power Metal Strip, 1W, 1%	2010	WSL20103L000FEA	Vishay	30800
	R110	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
	R111	4.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R112	47K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R113	56K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R114	45.3K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R115	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R116	3.3K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R117	82K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R118	39K	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	5650
1	R119	8.87K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R120	1.5K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R121	10.0K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
2	R122	10.0K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
	R123	10.0K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
1	R199	22.1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R200	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	9100
23	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
1	TP3		Test Point, Red, 1mm	0.038",Farnell"	6400	240-345	
15	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP7	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP10	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP11	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP12	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP13	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP14	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP15	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP16	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP17	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP18	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP19	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP20	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
6	TP21	VOUT	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10

	TP22	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP23	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP24	VOUT	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP25	VOUT	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP26	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP27	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP28	VOUT	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP29	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP30	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP31	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP32	VOUT	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP33	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP34	VOUT	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP35	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP36	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
6	TP37		Test Point, Red, 1mm	0.038	240-345	Farnell	6400
	TP38		Test Point, Red, 1mm	0.038	240-345	Farnell	6400
	TP39		Test Point, Red, 1mm	0.038	240-345	Farnell	6400
2	TP40		Test Point, Black, 1mm	0.038	240-333	Farnell	6400
	TP41		Test Point, Red, 1mm	0.038	240-345	Farnell	6400
	TP42		Test Point, Red, 1mm	0.038	240-345	Farnell	6400
	TP43		Test Point, Red, 1mm	0.038	240-345	Farnell	6400
	TP44		Test Point, Black, 1mm	0.038	240-333	Farnell	6400
	TP45	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP46	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP47	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP48	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP49	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP50	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP51	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP52	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP53	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
3	TP54	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
	TP55	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
1	TP56	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone	10
	TP57	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
3	U1	TPS2420RSA	IC, +0 to +12V Integrated FET Hot Swap	QFN-16	TPS2420RSA	TI	52900
1	U2	TL431A	IC, Shunt Regulator, 6V, 10mA, 1%	SOT23-5	TL431AIDBVR	TI	16384
1	U3	TPS40210DRC	IC, 4.5V-52V I/P, Current Mode Boost Controller	DRC10	TPS40210DRC	TI	30400
1	U4	TPS61175PWP	IC, High Voltage/Current Boost Converter	HTSSOP-14	TPS61175PWP	TI	57600
3	U5	TPS3801-01DCK	IC, Voltage Detector, Adjustable	SOP-5 (DCK)	TPS3801-01DCK	TI	30405
1	U6	SN74LVC3G14	IC, Tripple Schmitt-Trigger Inverter	VSSOP	SN74LVC3G14DCU	TI	13.78 mm
	U7	TPS3801-01DCK	IC, Voltage Detector, Adjustable	SOP-5 (DCK)	TPS3801-01DCK	TI	30405
1	U8	TPS71533DCK	IC, Regulator, LDO, Micropower, 3uA @ 50mA, Vin 0 - 24V	SOP-5 (DCK)	TPS71533DCK	TI	30405
	U9	TPS3801-01DCK	IC, Voltage Detector, Adjustable	SOP-5 (DCK)	TPS3801-01DCK	TI	30405
4	U10	INA210	IC, Voltage Output, High or Low Side Measurement	SC-70	INA210AIDCKR	TI	18600
	U11	TPS2420RSA	IC, +0 to +12V Integrated FET Hot Swap	QFN-16	TPS2420RSA	TI	52900
3	U12	TPS54620RGY	IC, 1.6V-17V Synchronous Buck PWM Converter with Integrated MOSFET	3.5mm x 3.3mm QFN14	TPS54620RGY	TI	41616
2	U13	TPS74701DRC	IC, 500mA LDO Regulator with Soft-Start	SON-10	TPS74701DRC	TI	30400
1	U14	TPS79901DDC	IC, Ultra-low Noise, High PSRR 200 mA, LDO Regulators	SOT23-5	TPS79901DDC	TI	23200
	U15	INA210	IC, Voltage Output, High or Low Side Measurement	SC-70	INA210AIDCKR	TI	18600

	U16	TPS54620RGY	IC, 1.6V-17V Synchronous Buck PWM Converter with Integrated MOSFET	3.5mm x 3.3mm QFN14	TPS54620RGY	TI	41616
	U17	TPS74701DRC	IC, 500mA LDO Regulator with Soft-Start	SON-10	TPS74701DRC	TI	30400
	U18	INA210	IC, Voltage Output, High or Low Side Measurement	SC-70	INA210AIDCKR	TI	18600
1	U19	TPS40021PWP	IC, Enhanced, Low Input Voltage-Mode, Synchronous Buck Controller	HTSSOP-16	TPS4002xPWP	TI	105,450
	U20	INA210	IC, Voltage Output, High or Low Side Measurement	SC-70	INA210AIDCKR	TI	18600
	U21	TPS2420RSA	IC, +0 to +12V Integrated FET Hot Swap	QFN-16	TPS2420RSA	TI	52900
	U22	TPS54620RGY	IC, 1.6V-17V Synchronous Buck PWM Converter with Integrated MOSFET	3.5mm x 3.3mm QFN14	TPS54620RGY	TI	41616
1	U23	TPS51200DRC	IC, Sink/Source DDR Termination Regulator	DRC	TPS51200DRC	TI	40500

- 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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