

Engineering Bill of Materials

Project Name:	<Parameter PRJ_ Title not found>
Project File:	E3_PMP40586_Main Board.PrjPcb
Base ID:	PMP40586
PCB Rev:	<Parameter PCB_Rev not found>
Schematic Rev:	<Parameter SCH_Rev not found>
Assembly Variant:	None
Generated:	9/19/2023 2:32 PM



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						330						835	1312				
Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Library Name	LibRef	SizeX (mm)	SizeY (mm)	SizeZ (mm)	SizeArea (mm2)	SizeAreaWB (mm2)	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2
1	IPC8101	Printed Circuit Board	O	Any	PMP40586	1	Altium Vault - TI	CMP-0003618-2									
2	C1, C2, C3, C10, C196, C209	330 µF 16 V Aluminum - Polymer Capacitors Radial, Can - SMD 6.5mOhm 5000 Hrs @ 105°C	TRUE	Panasonic	16SVPG330M	6	Altium Vault - TI	CMP-0093809-1			10.5mm			Digikey	10-16SVPG330MCT-ND	Mouser	667-16SVPG330M
3	C4, C5, C6, C7, C8, C9, C210	1200 µF 16 V Aluminum - Polymer Capacitors Radial, Can - SMD 7mOhm 5000 Hrs @ 105°C	Y	Panasonic	16SVPG1200M	7	Altium Vault - TI	CMP-0012271-2						Digi-Key		Mouser	
4	C14, C15, C114, C118	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	Y	Taiyo Yuden	TMK212BBJ106KG-T	4	Altium Vault - TI	CMP-0008414-2	2	1.25	1.45	2.5	6.75	Digi-Key	587-2985-1-ND	Newark	92T9713
5	C101	Cap Film 0.015uF 800V PP 3% (15.4 X 6.2 X 10.6mm) Radial 12.5mm 105°C Bulk	Y	MuRata	ECW-H8153HA	1	Miscellaneous Devices.IntLib	Capacitor	5.5	3.15	6	17.325	38.625	Digi-Key	490-8953-ND	Mouser	81-RDER73A472K2K1H3B
6	C102, C103, C107, C108	CAP, Film, 0.047 µF, 800 V, +/- 3%, TH	Y	Panasonic	ECW-H8473HA	4	Altium Vault - TI	CMP-0001608-2	15.7	9.7	15.6	152.29	207.09	Digi-Key	P14263-ND	Newark	23T5803
7	C104, C105	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1812	Y	MuRata	GRM43DR72J104KW01L	2	Altium Vault - TI	CMP-0009455-2	4.5	3.2	1.35	14.4	23.1	Digi-Key	490-3518-1-ND	Mouser	81-GRM43DR72J104KW01
8	C106	CAP, AL, 47 µF, 450 V, +/- 20%, TH	Y	Rubycon	450TXW47MEFC16X25	1	Altium Vault - TI	CMP-0860467-1	16	16	27.5	256	324				
9	C109, C110	CAP, CERM, 2200 pF, 100 V, +/- 5%, C0G/NP0, 1206	Y	MuRata	GRM3195C2A222JA01D	2	Altium Vault - TI	CMP-0008850-2	3.2	1.6	1.35	5.12	10.92	Digi-Key	490-3350-1-ND	Mouser	81-GRM315C2A222JA01D
10	C111, C113	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	Y	MuRata	GRJ21BR71E225KE01L	2	Altium Vault - TI	CMP-0064944-2	2	1.25	1.45	2.5	6.75	Digi-Key	490-10922-1-ND	Mouser	81-GRJ21BR71E225KE1L
11	C112, C115, C117, C119, C140, C143, C153	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	Y	MuRata	GRM188R71E104KA01D	7	Altium Vault - TI	CMP-0007404-4	1.6	0.8	1	1.28	4.68	Digi-Key	490-1524-1-ND	Mouser	81-GRM39X104K25
12	C116, C136, C141, C145, C149, C150, C151	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	Y	MuRata	GRM188R71E103KA01D	7	Altium Vault - TI	CMP-0007403-4	1.6	0.8	1	1.28	4.68	Digi-Key	490-1520-1-ND	Mouser	81-GRM39X103K25
13	C120, C121, C122, C123, C124, C125, C126, C127, C133, C154, C155, C156, C157, C158, C159, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C228, C229, C232, C233, C234, C235, C236, C237, C238, C239, C240	CAP, CERM, 22 µF, 25 V, +/- 10%, X7R, 1210	Y	Kemet	C1210C226K3RAC7800	43	Altium Vault - TI	CMP-0082266-1	3.2	2.5	2.8	8	14.7	Digi-Key	399-11958-1-ND	Mouser	80-C1210C226K3R
14	C128	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	Y	TDK	C1608X7R1E105K080AA	1	Altium Vault - TI	CMP-0007039-5	1.6	0.8	1	1.28	4.68	Digi-Key	445-1316-1-ND	Newark	87R3692
15	C130, C152, C208	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	Y	MuRata	GRJ188R71E105KE11D	3	Altium Vault - TI	CMP-0079720-1	1.6	0.8	1	1.28	4.68	Digi-Key	490-10888-1-ND	Newark	96Y9217
16	C131	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	Y	MuRata	GRM21BR71E105KA99L	1	Altium Vault - TI	CMP-0008336-1	2	1.25	1.45	2.5	6.75	Digi-Key	GRM21BR71E105KA99L-ND	Mouser	81-GRM21BR71E105KA99
17	C139, C144	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	Y	MuRata	GRM1885C1H221JA01D	2	Altium Vault - TI	CMP-0007197-4	1.6	0.8	1	1.28	4.68	Digi-Key	490-1435-1-ND	Mouser	81-GRM39C221J50
18	C142	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	Y	MuRata	GRM1885C1H101JA01D	1	Altium Vault - TI	CMP-0007171-4	1.6	0.8	1	1.28	4.68	Digi-Key	490-1427-1-ND	Mouser	81-GRM39C101J50
19	C160, C161	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	Y	MuRata	GRM1885C1H330JA01D	2	Altium Vault - TI	CMP-0007208-4	1.6	0.8	1	1.28	4.68	Digi-Key	490-1415-1-ND	Mouser	81-GRM39C330J50
20	C164	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	Y	MuRata	GCM1555C1H100JA16D	1	Altium Vault - TI	CMP-0860290-1	1	0.5	0.6	0.5	3				
21	C165, C172, C176, C177, C180	CAP, CERM, 22 uF, 16 V, +/- 20%, X6S, 0805	Y	MuRata	GRM21BC81C226ME44L	5	Altium Vault - TI	CMP-0008269-1	2	1.25	1.45	2.5	6.75	Digi-Key	490-9956-1-ND	Newark	81-GRM21BC81C226ME4K
22	C166, C168, C169, C171, C181, C183	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	TDK	C1608X5R1E106M080AC	6	Altium Vault - TI	CMP-0007007-5	1.6	0.8	1	1.28	4.68	Digi-Key	445-9015-1-ND	Newark	07W9179
23	C167, C170, C175, C179, C182, C184	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	Y	Kemet	C0603C104K5RACTU	6	Altium Vault - TI	CMP-0006861-3	1.6	0.8	1	1.28	4.68	Digi-Key	399-5089-1-ND	Mouser	80-C0603C104K5R
24	C173	CAP, CERM, 680 pF, 25 V, +/- 10%, X7R, 0805	Y	MuRata	GRM216R71E681KA01D	1	Altium Vault - TI	CMP-0008152-1	2	1.25	1.45	2.5	6.75	Digi-Key	GRM216R71E681KA01D-ND	Mouser	81-GRM216R71E681KA1D
25	C174, C178	CAP, CERM, 33 pF, 100 V, +/- 5%, C0G/NP0, 0603	Y	MuRata	GRM1885C2A330JA01D	2	Altium Vault - TI	CMP-0007263-3	1.6	0.8	1	1.28	4.68	Digi-Key	490-1339-1-ND	Mouser	81-GRM1885C2A330JA01
26	C185, C186	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	Y	Kemet	C0603X103K5RACTU	2	Altium Vault - TI	CMP-0006978-1	1.6	0.8	1	1.28	4.68	Digi-Key	399-5346-1-ND	Mouser	80-C0603X103K5R
27	C187, C188	CAP, CERM, 0.022 uF, 50 V, +/- 1%, C0G/NP0, 0805	Y	Kemet	C0805C223F5GACTU	2	Altium Vault - TI	CMP-0007767-2	2	1.25	1.45	2.5	6.75	Digi-Key	399-10067-1-ND	Newark	94Y9923
28	C190	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	Y	AVX	06035A101FAT2A	1	Altium Vault - TI	CMP-0006762-1	1.6	0.8	1	1.28	4.68	Digi-Key	478-6202-1-ND	Newark	95W2725
29	C193, C197, C200	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	Y	TDK	C1608X7R1E104K080AA	3	Altium Vault - TI	CMP-0007039-5	1.6	0.8	1	1.28	4.68	Digi-Key	445-1316-1-ND	Newark	87R3692
30	C195, C207	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	Y	Kemet	C0603C222K5RACTU	2	Altium Vault - TI	CMP-0006898-4	1.6	0.8	1	1.28	4.68	Digi-Key	399-1085-1-ND	Mouser	80-C0603C222K5R
31	C201, C202, C206	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	Y	MuRata	GRM188R71H471KA01D	3	Altium Vault - TI	CMP-0007455-3	1.6	0.8	1	1.28	4.68	Digi-Key	490-1489-1-ND	Mouser	81-GRM39X471K50D
32	C203	CAP, CERM, 1 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	Y	MuRata	GCM188R71C105MA64D	1	Altium Vault - TI	CMP-0007137-5	1.6	0.8	1	1.28	4.68				
33	C205	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	Y	MuRata	GRM188R71H103KA01D	1	Altium Vault - TI	CMP-0007433-4	1.6	0.8	1	1.28	4.68	Digi-Key	490-1512-1-ND	Mouser	81-GRM39X103K50D
34	C1190, C1240	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	Y	TDK	CGA2B3X7S2A472K050BB	2	Altium Vault - TI	CMP-0006337-1	1	0.5	0.6	0.5	3	Digi-Key	445-6908-1-ND	Mouser	810-CGA2B3X7S2A472K050BB
35	D101	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	Y	Fairchild Semiconductor	ES1JAF	1	Altium Vault - TI	CMP-0029162-1	4.7	2.5	1	11.75	19.95	Digi-Key	ES1JAFCT-ND	Mouser	512-ES1JAF
36	D102, D103, D104, D105, D106, D107, D119, D120, D121, D122	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	Y	Nexperia	BAS316,115	10	Altium Vault - TI	MP-0029006-2, CMP-0029006	2.7	1.35	1	3.645	8.695	[NoParam], Digi-Key	[NoParam], 568-5003-1-ND	[NoParam], Farnell	[NoParam], 8734275
37	D116	LED, Green, SMD	Y	Lite-On	LTST-C190GKT	1	Altium Vault - TI	CMP-0002827-3									
38	D117	Diode, Zener, 15 V, 300 mW, SOD-323	Y	ON Semiconductor	MM3Z15VST1G	1	Altium Vault - TI	CMP-0085762-1	2.7	1.35	1	3.645	8.695				
39	D118	Diode, Zener, 5.1 V, 500 mW, SOD-123	Y	Diodes Inc.	MMSZ5231B-7-F	1	Altium Vault - TI	CMP-0005802-1	3.85	1.7	1.35	6.545	13.095	Digi-Key	MMSZ5231B-FDICT-ND	Mouser	621-MMSZ5231B-F
40	F101	Fuse, 5 A, 250VAC/VDC, TH	Y	Littelfuse	39215000000	1	Altium Vault - TI	CMP-0003562-2						Digi-Key	39215000000-ND	Newark	32M4588
41	J101	Terminal Block, 10.16mm, 2x1, Tin, TH	Y	TE Connectivity	282843-2	1	Altium Vault - TI	CMP-0067665-1						Digi-Key	A98084-ND	Mouser	571-282843-2

42	J102	Header, 100mil, 3x2, Gold, TH	Y	Sullins Connector Solutions	PBC03DAAN	1	Altium Vault - TI	CMP-0054565-2							Digi-Key	S2011E-03-ND		
43	J103	Header, 2.54mm, 2x2, Gold, TH	Y	Sullins Connector Solutions	PBC02DAAN	1	Altium Vault - TI	CMP-0054598-1							Digi-Key	S2011E-02-ND		
44	J104	Header, 2mm, 20x2, Gold, TH	Y	Molex	87758-4016	1	Altium Vault - TI	CMP-0055313-1							Digi-Key	WM18851-ND	Newark	59J1584
45	J105	C2000 controlCARD-120HSEC connector, SMT	Y	Samtec	HSEC8-160-01-L-DV-A-BL	1	Altium Vault - TI	CMP-0003814-2										
46	J106, J107, J109, J111, J112	Header, 100mil, 3x1, Gold, TH	Y	Samtec	TSW-103-07-G-S	5	Altium Vault - TI	CMP-0075407-2							Digi-Key	SAM1029-03-ND		
47	J108	12 Position Receptacle, Bottom Entry Connector Surface Mount	TRUE	Samtec	HLE-106-02-G-DV-BE-A	1	Altium Vault - TI	CMP-0089984-1				3.79mm			Digikey	HLE-106-02-G-DV-BE-A-ND	Mouser	200-HLE10602GDVBEA
48	J110	Header, 100mil, 6x1, Gold, TH	Y	Samtec	TSW-106-07-G-S	1	Altium Vault - TI	CMP-0075413-2							Digi-Key	SAM1029-06-ND		
49	L101	1000W RESONANT CHOKE	Y	YAXIN ELECTRONIC TECH	YXS50494T	1	Schlib1.SchLib	INDUCTOR_COUPLED	22	10	16							
50	L103	Inductor, Shielded, Powdered Iron, 470 nH, 3.4 A, 0.04 ohm, SMD	Y	Würth Elektronik	7.44383E+11	1	Altium Vault - TI	CMP-0064138-1	2.5	2	1.2	5	10.5	Digi-Key	732-5677-1-ND	Newark	87X9910	
51	L104	Inductor, Metal Composite, 2.2 µH, 3.4 A, 0.063 ohm, SMD	Y	Cyntec	HBLE041B-2R2MSA	1	Altium Vault - TI	CMP-0078545-1	4.1	4.1	1.2	16.81	26.01					
52	MP101	HEATSINK AND CLIPS FOR 2 TO-247	TRUE	Ohmite	C247-050-2AE	1	Altium Vault - TI	CMP-0087085-1										
53	Q101, Q106	MOSFET, N-CH, 600 V, 48 A, TO-247	Y	Infineon Technologies	IPW60R060P7XKSA1	2	Altium Vault - TI	CMP-0001178-3	15.6	5	25	78	123.2	Digi-Key	IPW60R060P7XKSA1-ND	Newark		
54	Q102, Q103, Q104, Q105, Q107, Q108, Q109, Q110	MOSFET, N-CH, 40 V, 42 A, DNK0008A (VSON-CLIP-8)	Y	Texas Instruments	CSD18510Q5B	8	Altium Vault - TI	CMP-0077216-2	6	5	1	30	56	Digi-Key	CSD18510Q5B-ND	Mouser	595-CSD18510Q5B	
55	Q111, Q117, Q118	MOSFET, N-CH, 60 V, 0.115 A, SOT-323	Y	Diodes Inc.	2N7002W-7-F	3	Altium Vault - TI	CMP-0000776-1	2.2	2.2	1.1	4.84	10.24	Digi-Key	2N7002W-FDICT-ND	Newark	25R5685	
56	Q112, Q113, Q114	MOSFET, N-CH, 25 V, 100 A, DNK0008A (VSON-CLIP-8)	Y	Texas Instruments	CSD16570Q5B	3	Altium Vault - TI	CMP-0000274-2	6	5	1	30	56	Digi-Key	CSD16570Q5B-ND	Newark	83X7113	
57	R1, R2, R3, R4	RES, 240, 1%, 0.25 W, 1206	Y	Yageo America	RC1206FR-07240RL	4	Altium Vault - TI	CMP-0018097-2	3.2	1.6	1.35	5.12		Digi-Key	311-240FRCT-ND	Mouser	603-RC1206FR-07240RL	
58	R37, R149	RES, 10.0, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0710RL	2	Altium Vault - TI	CMP-0022751-4	1.6	0.8	1	1.28	4.68	Digi-Key	311-10.0HRCT-ND	Mouser	603-RC0603FR-0710RL	
59	R101, R123, R124, R125, R128, R129, R130, R150, R162, R164, R165, R167	RES, 10.0 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0710KL	12	Altium Vault - TI	CMP-0022746-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-10.0KHRCT-ND	Mouser	603-RC0603FR-0710KL	
60	R102, R103, R109, R110	RES, 10.0, 1%, 0.25 W, 1206	Y	Yageo America	RC1206FR-0710RL	4	Altium Vault - TI	CMP-0017851-2	3.2	1.6	1.35	5.12		Digi-Key	311-10.0FRCT-ND	Mouser	603-RC1206FR-0710RL	
61	R104, R105, R106, R107, R112, R113, R114, R115	RES, 1.00, 1%, 0.125 W, 0805	Y	Yageo America	RC0805FR-071RL	8	Altium Vault - TI	CMP-0021894-2	2	1.25	1.45	2.5		Digi-Key	311-1.00CRCT-ND	Mouser	603-RC0805FR-071RL	
62	R108	RES, 16.2 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0716K2L	1	Altium Vault - TI	CMP-0022828-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-16.2KHRCT-ND	Mouser	603-RC0603FR-0716K2L	
63	R111	RES, 1.00, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	Y	Panasonic	ERJ-8RQF1R0V	1	Altium Vault - TI	CMP-0017773-3	3.2	1.6	1.35	5.12	10.92	Digi-Key	P1.0RCT-ND	Mouser	667-ERJ-8RQF1R0V	
64	R116	RES, 20.0, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	Y	Panasonic	ERJ-6ENF20R0V	1	Altium Vault - TI	CMP-0021620-2	2	1.25	1.45	2.5		Digi-Key	P20.0CCT-ND	Newark	65T8713	
65	R118, R120	RES, 4.70, 1%, 0.125 W, 0805	Y	Yageo America	RC0805FR-074R7L	2	Altium Vault - TI	CMP-0021936-2	2	1.25	1.45	2.5		Digi-Key	311-4.70CRCT-ND	Mouser	603-RC0805FR-074R7L	
66	R119, R144, R171, R203, R214, R219, R221	RES, 5.10 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-075K1L	7	Altium Vault - TI	CMP-0023198-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-5.10KHRCT-ND	Mouser	603-RC0603FR-075K1L	
67	R121, R122, R126, R127	RES, 10.0, 1%, 0.125 W, 0805	Y	Yageo America	RC0805FR-0710RL	4	Altium Vault - TI	CMP-0021863-2	2	1.25	1.45	2.5		Digi-Key	311-10.0CRCT-ND	Mouser	603-RC0805FR-0710RL	
68	R131, R138	RES, 0, 5%, 0.1 W, 0603	Y	Yageo	RC0603JR-070RL	2	Altium Vault - TI	CMP-0025885-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-0.0GRCT-ND	Mouser	603-RC0603JR-070RL	
69	R134	RES, 10.0 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	Y	Panasonic	ERJ-6ENF1002V	1	Altium Vault - TI	CMP-0021520-3	2	1.25	1.45	2.5	6.75	Digi-Key	P10.0KCCT-ND	Mouser	667-ERJ-6ENF1002V	
70	R135, R136, R137, R176	RES, 0.0005, 1%, 3 W, AEC-Q200 Grade 0, 2512	Y	Vishay-Dale	WSLP2512L5000FEA	4	Altium Vault - TI	CMP-0015857-2	6.35	3.18	0.889	20.193		Newark	54X6170	Mouser	71-WSLP2512L5000FEA	
71	R143, R156	RES, 100 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07100KL	2	Altium Vault - TI	CMP-0022735-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-100KHRCT-ND	Mouser	603-RC0603FR-07100KL	
72	R146, R148	RES, 1.00 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-071KL	2	Altium Vault - TI	CMP-0022895-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-1.00KHRCT-ND	Mouser	603-RC0603FR-071KL	
73	R147, R155	RES, 2.00 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-072KL	2	Altium Vault - TI	CMP-0023000-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-2.00KHRCT-ND	Mouser	603-RC0603FR-072KL	
74	R151	RES, 120 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07120KL	1	Altium Vault - TI	CMP-0022768-4	1.6	0.8	1	1.28	4.68	Digi-Key	311-120KHRCT-ND	Mouser	603-RC0603FR-07120KL	
75	R154	RES, 549, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07549RL	1	Altium Vault - TI	CMP-0023179-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-549HRCT-ND	Mouser	603-RC0603FR-07549RL	
76	R160	RES, 470, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07470RL	1	Altium Vault - TI	CMP-0023129-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-470HRCT-ND	Mouser	603-RC0603FR-07470RL	
77	R161, R163	RES, 499, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07499RL	2	Altium Vault - TI	CMP-0023141-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-499HRCT-ND	Mouser	603-RC0603FR-07499RL	
78	R166	RES, 4.99 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-074K99L	1	Altium Vault - TI	CMP-0023155-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-4.99KHRCT-ND	Mouser	603-RC0603FR-074K99L	
79	R168, R169	RES, 51.0, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0751RL	2	Altium Vault - TI	CMP-0023169-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-51.0HRCT-ND	Mouser	603-RC0603FR-0751RL	
80	R170, R173, R210	RES, 20.0 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0720KL	3	Altium Vault - TI	CMP-0022906-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-20.0KHRCT-ND	Mouser	603-RC0603FR-0720KL	
81	R172, R198, R199, R201, R208, R211, R213	RES, 100R, 1%, 0.1 W, 0603	Y	Panasonic	100R	7	Altium Vault - TI	CMP-0022680-4	1.6	0.8	1	1.28		Digi-Key		Newark		
82	R174, R175, R218, R222, R223	RES, 10.0 k, 1%, 0.1 W, 0603	Y	Panasonic	ERJ-3EKF1002V	5	Altium Vault - TI	CMP-0022684-3	1.6	0.8	1	1.28		Digi-Key	P10.0KHCT-ND	Newark	64R5309	
83	R177, R180, R181	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW0402100KFKE	3	Altium Vault - TI	CMP-0025950-3	1	0.5	0.6	0.5		Digi-Key	541-100KLCT-ND	Newark	52K6607	
84	R178	RES, 453 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW0402453KFKE	1	Altium Vault - TI	CMP-0026385-2	1	0.5	0.6	0.5		Digi-Key	541-453KLCT-ND	Mouser	71-CRCW0402-453K-E3	
85	R179	RES, 249 k, 1%, 0.063 W, 0402	Y	Vishay-Dale	CRCW0402249KFKE	1	Altium Vault - TI	CMP-0026193-1	1	0.5	0.6	0.5		Digi-Key	541-249KLCT-ND	Newark	52K6884	
86	R182	RES, 9.31 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW04029K31FKE	1	Altium Vault - TI	CMP-0026620-3	1	0.5	0.6	0.5		Digi-Key	541-9.31KLCT-ND	Newark	52K7334	
87	R183	RES, 34.0 k, 1%, 0.063 W, 0402	Y	Vishay-Dale	CRCW040234K0FKE	1	Altium Vault - TI	CMP-0026304-1	1	0.5	0.6	0.5		Digi-Key	541-34.0KLCT-ND	Newark	52K6985	
88	R184, R185, R192	RES, 10.0 k, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW060310K0FKEA	3	Altium Vault - TI	CMP-0021998-2	1.6	0.8	1	1.28		Digi-Key	541-10.0KHCT-ND	Newark	52K8062	
89	R186, R187	RES, 20 k, 5%, 0.1 W, 0603	Y	Vishay-Dale	CRCW060320K0JNEA	2	Altium Vault - TI	CMP-0025753-3	1.6	0.8	1	1.28		Digi-Key	541-20KGCT-ND	Newark	59M6783	
90	R188	RES, 220 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07220KL	1	Altium Vault - TI	CMP-0022917-4	1.6	0.8	1	1.28	4.68	Digi-Key	311-220KHRCT-ND	Mouser	603-RC0603FR-07220KL	
91	R189	RES, 43.0 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0743KL	1	Altium Vault - TI	CMP-0023113-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-43.0KHRCT-ND	Mouser	603-RC0603FR-0743KL	
92	R190	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	Y	Panasonic	ERJ3EKF2001V	1	Altium Vault - TI	CMP-0078663-1	1.6	0.8	1	1.28		Digi-Key	P2.00KHCT-ND	Newark	65T8366	
93	R191, R220	RES, 30.0 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-0730KL	2	Altium Vault - TI	CMP-0023020-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-30.0KHRCT-ND	Mouser	603-RC0603FR-0730KL	
94	R193, R194	RES, 30 k, 5%, 0.1 W, 0603	Y	Vishay-Dale	CRCW060330K0JNEA	2	Altium Vault - TI	CMP-0025782-1	1.6	0.8	1	1.28		Digi-Key	541-30KGCT-ND	Newark	59M8579	
95	R195, R205, R206, R217	RES, 3.00 k, 1%, 0.1 W, 0603	Y	Panasonic	ERJ-3EKF3001V	4	Altium Vault - TI	CMP-0022680-4	1.6	0.8	1	1.28		Digi-Key	P3.00KHCT-ND	Newark	90W3099	
96	R196	RES, 1.00 k, 1%, 0.1 W, 0603	Y	Panasonic	ERJ-3EKF1001V	1	Altium Vault - TI	CMP-0022680-4	1.6	0.8	1	1.28		Digi-Key	P1.00KHCT-ND	Newark	90W3099	
97	R197	RES, 3.30 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW06033K30FKEA	1	Altium Vault - TI	CMP-0082531-1	1.6	0.8	1	1.28	4.68	Digi-Key	541-3.30KHCT-ND	Newark	52K8376	
98	R200, R202, R207, R209	RES, 10.00 k, 1%, 0.1 W, 0603	Y	Panasonic	ERJ-3EKF1002V	4	Altium Vault - TI	CMP-0022680-4	1.6	0.8	1	1.28		Digi-Key	P10.00KHCT-ND	Newark	90W3099	
99	R212, R216	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW06031K00FKEA	2	Altium Vault - TI	CMP-0022109-5	1.6	0.8	1	1.28		Digi-Key	541-1.00KHCT-ND	Newark	52K8015	
100	R215	RES, 4 k, 1%, 0.1 W, 0603	Y	Panasonic	ERJ-3EKF4001V	1	Altium Vault - TI	CMP-0022680-4	1.6	0.8	1	1.28		Digi-Key	P4.00KHCT-ND	Newark	90W3099	
101	R1180, R1290	RES, 100, 1%, 0.063 W, 0402	Y	Vishay-Dale	CRCW0402100RFKE	2	Altium Vault - TI	CMP-0025951-1	1	0.5	0.6	0.5		Digi-Key	541-100LCT-ND	Newark	52K6609	
102	S101	Switch, SPDT, Slide, On-On, 2 Pos, TH	Y	Würth Elektronik	4.50301E+11	1	Altium Vault - TI	CMP-0002207-2						Digikey	450301014042-ND	Mouser	123-09.03201.02	
103	T101	1000W TRANSFORMER 140~160uH	TRUE	YAXIN ELECTROINC TECH	YXS61075T	1	Altium Vault - TI	CMP-0086982-2				38mm						
104	T102	Current Sense Transformer	TRUE	Coilcraft	CST1211-100LD	1	Altium Vault - TI	CMP-0087633-1				11mm						

105	T103, T104, T105, T106	Terminal 50A Lug	Y	Panduit	CB35-36-CY	4	Altium Vault - TI	CMP-0055442-1							Digi-Key	CB35-36-CY-ND		
106	TP1, TP4	Test Point, Miniature, SMT	Y	Keystone	5015	2	Altium Vault - TI	CMP-0055152-1							Digi-Key	36-5015TR-ND	Mouser	534-5015
107	TP109, TP112, TP114, TP115, TP117, TP141		Y	Mill-Max	0312-0-15-15-34-27-10-0	6	Altium Vault - TI	CMP-0055026-1							Digi-Key	0312-015153427100-ND	Newark	86C2101
108	U101	Reinforced Isolation Dual-Channel Gate Driver 18V 4A/6A SOIC14	NKNOW	Texas Instruments	UCC21540DWKR	1	Altium Vault - TI	CMP-0092465-2				2.65mm						
109	U102, U103	Dual, 5A, High-Speed Low-Side Power MOSFET Driver, DGN0008D (VSSOP-8)	Y	Texas Instruments	UCC27524DGN	2	Altium Vault - TI	CMP-0066951-1	5.05	3.1	1.1	15.655	35.955					
110	U105	TLVx376, 5.5 MHz, Low-Noise, Low Quiescent Current, Precision Operational Amplifiers, DBV0005A (SOT-23-5)		Texas Instruments	TLV376IDBVR	1	Altium Vault - TI	CMP-0073542-1	2.8	2.9	1.45	8.12	14.82					
111	U106	N+1 and OR-ing Power Rail Controller, 0.8 to 16.5 V, -40 to 85 degC, 14-pin TSSOP (PW), Green (RoHS & no Sb/Br)		Texas Instruments	TPS2411PWR	1	Altium Vault - TI	CMP-0038282-1										
112	U107	2.4V, 10µA Temperature Sensor, 5-pin SC-70 Micro SMD, Pb-Free	Y	Texas Instruments	LM20BIM7X/NOPB	1	Altium Vault - TI	CMP-0073339-2	2.1	2	1.1	4.2	9.3					
113	U108	Transistor, NPN/PNP Pair, 40 V, 0.2 A, AEC-Q101, SOT-363	Y	Diodes Inc.	MMDT3946-7-F	1	Altium Vault - TI	CMP-0000513-5	2.2	2.2	1.1	4.84	10.24					
114	U109, U114	Single Bus Buffer Gate With 3-State Output, DBV0005A (SOT-23-5)		Texas Instruments	SN74AHCT1G126DBVR	2	Altium Vault - TI	CMP-0052019-2	2.8	2.9	1.45	8.12	14.82					
115	U110	3-V to 17-V, Synchronous Buck Converters in 1.6 mm x 2.1 mm SOT583 Package	NKNOW	Texas Instruments	TPS629210QDRLRQ1	1	Altium Vault - TI	CMP-0089687-1				0.6mm						
116	U111	2.7-V to 6-V Step-Down Converter in SOT583 Package	NKNOW	Texas Instruments	TPS628510DRLR	1	Altium Vault - TI	CMP-0090045-1				0.6mm						
117	U112, U113	3V to 16 V Input, 3-A Synchronous Step-Down Voltage Regulator Module, QFN-FCMOD7	NKNOW	Texas Instruments	TPSM863252RDX	2	Altium Vault - TI	CMP-0097277-1				2.1mm						
118	U115, U116	50-MHz, Low-Power, Gain of 6-V/V Stable, Rail-to-Rail Output CMOS Operational Amplifier, DBV0005A (SOT-23-5)		Texas Instruments	OPA365	2	Altium Vault - TI	CMP-0861047-2	2.8	2.9	1.45	8.12	14.82					
119	U117	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)		Texas Instruments	ATL431LIBIDBZR	1	Altium Vault - TI	CMP-0084732-1	2.5	3	1.12	7.5	14					
120	U118	Single 2-Input Positive-AND Gate, DBV0005A (SOT-23-5)	Y	Texas Instruments	SN74AHC1G08DBVR	1	Altium Vault - TI	CMP-0051578-2	2.8	2.9	1.45	8.12	14.82					

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