Engineering Bill of Materials

Project Name:	**PD Reference Design**
Project File:	**BMS046 B.PrjPcb**
Base ID:	**BMS046**
PCB Rev:	**A**
Schematic Rev:	**B**
Assembly Variant:	**001**
Generated:	**8/17/2023 10:08 AM**

Date opened: 9/25/2023
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						116						345	658			
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	IPCB1	Printed Circuit Board	O	Any	BMS046	1	Altium Vault - TI	CMP-0003618-2									
2	C1	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	Y	MuRata	GRM155R71E473KA88D	1	Altium Vault - TI	CMP-0006669-2	1	0.5	0.6	0.5	3	Digi-Key	490-3254-1-ND	Newark	14T3282
3	C4	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
4	C5	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
5	C6	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0402	Y	TDK	C1005X7R1H104K050BE	1	Altium Vault - TI	CMP-0064946-2	1	0.5	0.6	0.5	3	Digi-Key	445-173610-1-ND	Newark	92Y5763
6	C7	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0402	Y	MuRata	GRM155R71E473KA88D	1	Altium Vault - TI	CMP-0006669-2	1	0.5	0.6	0.5	3	Digi-Key	490-3254-1-ND	Newark	14T3282
7	C8	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
8	C9	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
9	C10	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
10	C11	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0402	Y	TDK	C1005X7R1H104K050BE	1	Altium Vault - TI	CMP-0064946-2	1	0.5	0.6	0.5	3	Digi-Key	445-173610-1-ND	Newark	92Y5763
11	C12	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0402	Y	TDK	C1005X7R1H104K050BE	1	Altium Vault - TI	CMP-0064946-2	1	0.5	0.6	0.5	3	Digi-Key	445-173610-1-ND	Newark	92Y5763
12	C13	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	Y	TDK	C2012X5R1E106K125AB	1	Altium Vault - TI	CMP-0007828-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-5984-1-ND		
13	C14	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	Y	TDK	C2012X5R1E106K125AB	1	Altium Vault - TI	CMP-0007828-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-5984-1-ND		
14	C15	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	Y	TDK	C2012X5R1E106K125AB	1	Altium Vault - TI	CMP-0007828-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-5984-1-ND		
15	C16	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	Y	TDK	C2012X5R1E106K125AB	1	Altium Vault - TI	CMP-0007828-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-5984-1-ND		
16	C17	CAP, CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	Y	TDK	C2012X5R1E106K125AB	1	Altium Vault - TI	CMP-0007828-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-5984-1-ND		
17	C18	4.7µF ±10% 25V Ceramic Capacitor X5R 0603 (1608 Metric)	TRUE	Murata	GRM188R61E475KE15D	1	Altium Vault - TI	CMP-0091702-1			1mm			Digikey	490-14462-1-ND	Mouser	81-GRM188R61E475KE5D
18	C19	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0402	Y	TDK	C1005X7R1H104K050BE	1	Altium Vault - TI	CMP-0064946-2	1	0.5	0.6	0.5	3	Digi-Key	445-173610-1-ND	Newark	92Y5763
19	C20	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
20	C21	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
21	C22	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	Y	Kemet	C0402C102K5RACTU	1	Altium Vault - TI	CMP-0006235-2	1	0.5	0.6	0.5	3	Digi-Key	399-1032-1-ND	Newark	53M7151
22	C23	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
23	C24	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	1	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
24	C25	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0402	Y	TDK	C1005X7R1H104K050BE	1	Altium Vault - TI	CMP-0064946-2	1	0.5	0.6	0.5	3	Digi-Key	445-173610-1-ND	Newark	92Y5763
25	C26	CAP, TA, 100 uF, 6.3 V, +/- 20%, 0.015 ohm, SMD	Y	Kemet	T520B107M006ATE015	1	Altium Vault - TI	CMP-0011556-2	3.5	2.8	2.1	9.8	17.1	Digi-Key	399-5306-1-ND	Newark	74M5065
26	C27	47µF ±10% 16V Ceramic Capacitor X5R 1210 (3225 Metric)	TRUE	Taiyo Yuden	EMK325ABJ476KMHP	1	Altium Vault - TI	CMP-0091700-1			2.8mm			Digikey	587-EMK325ABJ476KMHPCT-ND	Mouser	963-EMK325ABJ476KMHP
27	C28	47µF ±10% 16V Ceramic Capacitor X5R 1210 (3225 Metric)	TRUE	Taiyo Yuden	EMK325ABJ476KMHP	1	Altium Vault - TI	CMP-0091700-1			2.8mm			Digikey	587-EMK325ABJ476KMHPCT-ND	Mouser	963-EMK325ABJ476KMHP
28	C29	4.7µF ±10% 50V Ceramic Capacitor X7R 1210 (3225 Metric)	TRUE	Kemet	C1210C475K5RACTU	1	Altium Vault - TI	CMP-0091699-1			2.8mm			Digikey	399-6785-1-ND	Mouser	80-C1210C475K5R
29	C30	4.7µF ±10% 50V Ceramic Capacitor X7R 1210 (3225 Metric)	TRUE	Kemet	C1210C475K5RACTU	1	Altium Vault - TI	CMP-0091699-1			2.8mm			Digikey	399-6785-1-ND	Mouser	80-C1210C475K5R
30	C31	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0805	Y	Kemet	C0805C103K5RACTU	1	Altium Vault - TI	CMP-0007718-2	2	1.25	1.45	2.5	6.75	Digi-Key	399-1158-1-ND	Newark	01J3314
31	C32	C0603 2,200 pF X7R 30ppm/°C 10.00% 100 V	TRUE	KEMET	C0603C222K1RACTU	1	Altium Vault - TI	CMP-0091689-1			0.87mm			Digikey	C0603C222K1RACTU-ND	Mouser	80-C0603C222K1R
32	C33	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	Y	AVX	06031C103KAT2A	1	Altium Vault - TI	CMP-0006727-4	1.6	0.8	1	1.28	4.68	Digi-Key	478-1205-1-ND	Newark	96K4758
33	C34	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	Y	Kemet	C0603C220J5GACTU	1	Altium Vault - TI	CMP-0006892-4	1.6	0.8	1	1.28	4.68	Digi-Key	399-1053-1-ND	Mouser	80-C0603C220J5G
34	C35	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	Y	Samsung Electro-Mechanics	CL05A106MP5NUNC	1	Altium Vault - TI	CMP-0006339-4	1	0.5	0.6	0.5	3				
35	C36	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	Y	Samsung Electro-Mechanics	CL05A106MP5NUNC	1	Altium Vault - TI	CMP-0006339-4	1	0.5	0.6	0.5	3				
36	C37	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	Y	Samsung Electro-Mechanics	CL05A106MP5NUNC	1	Altium Vault - TI	CMP-0006339-4	1	0.5	0.6	0.5	3				
37	C38	CAP, CERM, 22 uF, 35 V, +/- 20%, X5R, 0805	Y	TDK	C2012X5R1V226M125AC	1	Altium Vault - TI	CMP-0007844-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-14428-1-ND		
38	C39	CAP, CERM, 22 uF, 35 V, +/- 20%, X5R, 0805	Y	TDK	C2012X5R1V226M125AC	1	Altium Vault - TI	CMP-0007844-2	2	1.25	1.45	2.5	6.75	Digi-Key	445-14428-1-ND		
39	C40	CAP, CERM, 0.1 uF, 35 V, +/- 10%, X5R, 0402	Y	Taiyo Yuden	GMK105BJ104KV-F	1	Altium Vault - TI	CMP-0006370-2	1	0.5	0.6	0.5	3	Digi-Key	587-1994-1-ND	Newark	84R9117
40	C41	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0201	Y	MuRata	GRM033R71H331KA12D	1	Altium Vault - TI	CMP-0009779-2	0.6	0.3	0.33	0.18	2.08	Digi-Key	GRM033R71H331KA12D-ND	Mouser	81-GRM033R71H331KA2D
41	C42	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0201	Y	MuRata	GRM033R71H331KA12D	1	Altium Vault - TI	CMP-0009779-2	0.6	0.3	0.33	0.18	2.08	Digi-Key	GRM033R71H331KA12D-ND	Mouser	81-GRM033R71H331KA2D
42	C43	CAP, CERM, 0.1 uF, 35 V, +/- 10%, X5R, 0402	Y	Taiyo Yuden	GMK105BJ104KV-F	1	Altium Vault - TI	CMP-0006370-2	1	0.5	0.6	0.5	3	Digi-Key	587-1994-1-ND	Newark	84R9117
43	C44	CAP, CERM, 4.7 uF, 35 V, +/- 10%, X5R, 0603	Y	MuRata	GRM188R6YA475KE15D	1	Altium Vault - TI	CMP-0007357-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-7205-1-ND	Newark	68X2784
44	C45	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	Y	Kemet	C0402C103J5RACTU	1	Altium Vault - TI	CMP-0006236-2	1	0.5	0.6	0.5	3	Digi-Key	399-7758-1-ND	Newark	57J0044
45	C46	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	Y	Kemet	C0402C103J5RACTU	1	Altium Vault - TI	CMP-0006236-2	1	0.5	0.6	0.5	3	Digi-Key	399-7758-1-ND	Newark	57J0044
46	C47	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	Y	Kemet	C0402C103J5RACTU	1	Altium Vault - TI	CMP-0006236-2	1	0.5	0.6	0.5	3	Digi-Key	399-7758-1-ND	Newark	57J0044
47	C48	CAP, CERM, 0.01 uF, 50 V, +/- 5%, X7R, 0402	Y	Kemet	C0402C103J5RACTU	1	Altium Vault - TI	CMP-0006236-2	1	0.5	0.6	0.5	3	Digi-Key	399-7758-1-ND	Newark	57J0044
48	D1	LED, Green, SMD	Y	Lite-On	LTST-C190GKT	1	Altium Vault - TI	CMP-0002827-3									
49	D2	Diode, Schottky, 40 V, 5 A, SMC	Y	Comchip Technology	CDBC540-G	1	Altium Vault - TI	CMP-0028510-2	8.13	6.22	2.6	50.5686	83.2686				
50	FID1	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	Altium Vault - TI	CMP-0077181-1									
51	FID2	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	Altium Vault - TI	CMP-0077181-1									
52	FID3	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	Altium Vault - TI	CMP-0077181-1									
53	FID4	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	Altium Vault - TI	CMP-0077181-1									
54	FID5	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	Altium Vault - TI	CMP-0077181-1									
55	FID6	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	1	Altium Vault - TI	CMP-0077181-1									
56	H1	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Altium Vault - TI	CMP-0003617-1						Digi-Key	H542-ND		
57	H2	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Altium Vault - TI	CMP-0003617-1						Digi-Key	H542-ND		
58	H3	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Altium Vault - TI	CMP-0003617-1						Digi-Key	H542-ND		
59	H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Y	B&F Fastener Supply	NY PMS 440 0025 PH	1	Altium Vault - TI	CMP-0003617-1						Digi-Key	H542-ND		
60	H5	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Altium Vault - TI	CMP-0003610-1						Digi-Key	36-1902C-ND		
61	H6	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Altium Vault - TI	CMP-0003610-1						Digi-Key	36-1902C-ND		
62	H7	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Altium Vault - TI	CMP-0003610-1						Digi-Key	36-1902C-ND		
63	H8	Standoff, Hex, 0.5"L #4-40 Nylon	Y	Keystone	1902C	1	Altium Vault - TI	CMP-0003610-1						Digi-Key	36-1902C-ND		
64	J1	Terminal Block, 5.08 mm, 2x1, Brass, TH	Y	On-Shore Technology	ED120/2DS	1	Altium Vault - TI	CMP-0074910-1						Digi-Key	ED1609-ND		
65	J2	Terminal Block, 5.08 mm, 2x1, Brass, TH	Y	On-Shore Technology	ED120/2DS	1	Altium Vault - TI	CMP-0074910-1						Digi-Key	ED1609-ND		
66	J3	Header (shrouded), 100mil, 5x2, High-Temperature, Gold, TH	Y	3M	N2510-6002-RB	1	Altium Vault - TI	CMP-0055448-2						Digi-Key	MHC10K-ND	Newark	18M6808
67	J4	Terminal Block, 3.5 mm, 2x1, Tin, TH	Y	Molex	393570002	1	Altium Vault - TI	CMP-0055341-2						Digi-Key	WM7877-ND	Newark	72K2104
68	J5	Header, 2.54mm, 5x2, Gold, SMT	Y	Samtec	TSM-105-01-L-DV-P	1	Altium Vault - TI	CMP-0055598-2						Digi-Key	SAM8741-ND	Newark	45P5170
69	J6	Receptacle, USB 3.1 Type C, R/A, Gold, SMT	Y	JAE Electronics	DX07S024JJ2R1300	1	Altium Vault - TI	CMP-0085712-2									

70	J7	Header, 100mil, 4x1, Tin, TH	Y	Sullins Connector Solutions	PEC04SAAN	1	Altium Vault - TI	CMP-0054562-1						Digi-Key	S1012E-04-ND		
71	JP1	Header, 100mil, 2x1, Tin, TH	Y	Sullins Connector Solutions	PEC02SAAN	1	Altium Vault - TI	CMP-0002337-1						Digi-Key	S1012E-02-ND		
72	JP2	Header, 100mil, 2x1, Tin, TH	Y	Sullins Connector Solutions	PEC02SAAN	1	Altium Vault - TI	CMP-0002337-1						Digi-Key	S1012E-02-ND		
73	JP3	Header, 100mil, 2x1, Tin, TH	Y	Sullins Connector Solutions	PEC02SAAN	1	Altium Vault - TI	CMP-0002337-1						Digi-Key	S1012E-02-ND		
74	JP4	Header, 100mil, 2x1, Tin, TH	Y	Sullins Connector Solutions	PEC02SAAN	1	Altium Vault - TI	CMP-0002337-1						Digi-Key	S1012E-02-ND		
75	L1	Inductor, Shielded Drum Core, Powdered Iron, 1 uH, 7 A, 0.0181 ohm, SMD	Y	Vishay-Dale	IHLP2020BZER1R0M11	1	Altium Vault - TI	CMP-0063290-1	5.49	5.18	2	28.4382	53.7782	Digi-Key	541-1218-1-ND		
76	L2	Inductor, Shielded Drum Core, Powdered Iron, 4.7 uH, 7 A, 0.015 ohm, SMD	Y	Wurth Elektronik	74437368047	1	Altium Vault - TI	CMP-0064124-1	11	10	4	110	156	Digi-Key	732-3389-1-ND	Newark	82T3283
77	L3	Ferrite Bead, 21 ohm @ 100 MHz, 6 A, 0805	Y	Taiyo Yuden	FBMJ2125HM210NT	1	Altium Vault - TI	CMP-0003375-1	2	1.25	1.45	2.5	6.75	Digi-Key	587-1765-1-ND		
78	R1	RES, 100, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07100RL	1	Altium Vault - TI	CMP-0022736-4	1.6	0.8	1	1.28	4.68	Digi-Key	311-100HRCT-ND	Mouser	603-RC0603FR-07100RL
79	R2	RES, 2.21 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW04022K21FKED	1	Altium Vault - TI	CMP-0026232-2	1	0.5	0.6	0.5		Digi-Key	541-2.21KLCT-ND	Newark	52K6795
80	R3	RES, 5.23 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW04025K23FKED	1	Altium Vault - TI	CMP-0026464-2	1	0.5	0.6	0.5		Digi-Key	541-5.23KLCT-ND	Newark	52K7121
81	R4	RES, 137 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07137KL	1	Altium Vault - TI	CMP-0022788-4	1.6	0.8	1	1.28	4.68	Digi-Key	311-137KHRCT-ND	Mouser	603-RC0603FR-07137KL
82	R5	RES, 30.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW040230K1FKED	1	Altium Vault - TI	CMP-0026284-2	1	0.5	0.6	0.5		Digi-Key	541-30.1KLCT-ND	Newark	52K6954
83	R6	RES, 100 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-07100KL	1	Altium Vault - TI	CMP-0022735-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-100KHRCT-ND	Mouser	603-RC0603FR-07100KL
84	R7	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	E	Vishay-Dale	CRCW040210K0FKED	1	Altium Vault - TI	CMP-0025958-3	1	0.5	0.6	0.5		Digi-Key	541-10.0KLCT-ND	Newark	52K6595
85	R8	RES, 6.04 k, 1%, 0.1 W, 0603	Y	Yageo	RC0603FR-076K04L	1	Altium Vault - TI	CMP-0023246-5	1.6	0.8	1	1.28	4.68	Digi-Key	311-6.04KHRCT-ND	Mouser	603-RC0603FR-076K04L
86	R9	RES, 10.5 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW060310K5FKEA	1	Altium Vault - TI	CMP-0022000-4	1.6	0.8	1	1.28		Digi-Key	541-10.5KHCT-ND	Newark	52K8068
87	R10	RES, 17.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW060317K4FKEA	1	Altium Vault - TI	CMP-0022089-4	1.6	0.8	1	1.28		Digi-Key	541-17.4KHCT-ND	Newark	52K8186
88	R11	RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	Y	Panasonic	ERJ-8ENF10R0V	1	Altium Vault - TI	CMP-0017299-3	3.2	1.6	1.35	5.12	10.92	Digi-Key	P10.0FCT-ND	Farnell	1748406
89	R12	RES, 51.1, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW060351R1FKEA	1	Altium Vault - TI	CMP-0022483-4	1.6	0.8	1	1.28		Digi-Key	541-51.1HCT-ND	Newark	52K8594
90	R13	RES, 665 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW0603665KFKEA	1	Altium Vault - TI	CMP-0022546-4	1.6	0.8	1	1.28		Digi-Key	541-665KHCT-ND	Mouser	71-CRCW0603-665K-E3
91	R14	RES, 10.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW060310K2FKEA	1	Altium Vault - TI	CMP-0021999-4	1.6	0.8	1	1.28		Digi-Key	541-10.2KHCT-ND	Newark	52K8067
92	R15	RES, 130 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW0603130KFKEA	1	Altium Vault - TI	CMP-0022036-4	1.6	0.8	1	1.28		Digi-Key	541-130KHCT-ND	Newark	52K8127
93	R16	RES, 1.96 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW06031K96FKEA	1	Altium Vault - TI	CMP-0022137-4	1.6	0.8	1	1.28		Digi-Key	541-1.96KHCT-ND	Newark	52K8051
94	R17	RES, 37.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	E	Vishay-Dale	CRCW060337K4FKEA	1	Altium Vault - TI	CMP-0022360-4	1.6	0.8	1	1.28		Digi-Key	541-37.4KHCT-ND	Newark	52K8462
95	R21	RES, 2.20 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW02012K20FKED	1	Altium Vault - TI	CMP-0027272-3	0.6	0.3	0.26	0.18		Digi-Key	541-2.20KAABCT-ND	Newark	01X1849
96	R22	RES, 2.20 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW02012K20FKED	1	Altium Vault - TI	CMP-0027272-3	0.6	0.3	0.26	0.18		Digi-Key	541-2.20KAABCT-ND	Newark	01X1849
97	R24	RES, 2.20 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW02012K20FKED	1	Altium Vault - TI	CMP-0027272-3	0.6	0.3	0.26	0.18		Digi-Key	541-2.20KAABCT-ND	Newark	01X1849
98	R25	RES, 2.20 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW02012K20FKED	1	Altium Vault - TI	CMP-0027272-3	0.6	0.3	0.26	0.18		Digi-Key	541-2.20KAABCT-ND	Newark	01X1849
99	R26	RES, 0, 5%, 0.05 W, 0201	E	Vishay-Dale	CRCW0201000Z0ED	1	Altium Vault - TI	CMP-0027008-4	0.6	0.3	0.26	0.18		Newark	72M6743		
100	R27	RES, 0, 5%, 0.05 W, 0201	E	Vishay-Dale	CRCW0201000Z0ED	1	Altium Vault - TI	CMP-0027008-4	0.6	0.3	0.26	0.18		Newark	72M6743		
101	R28	RES, 10.0 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW020110K0FKED	1	Altium Vault - TI	CMP-0027262-3	0.6	0.3	0.26	0.18		Digi-Key	541-10.0KAABCT-ND	Newark	71R4422
102	R29	RES, 0, 5%, 0.05 W, 0201	E	Vishay-Dale	CRCW0201000Z0ED	1	Altium Vault - TI	CMP-0027008-4	0.6	0.3	0.26	0.18		Newark	72M6743		
103	R30	RES, 10.0 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW020110K0FKED	1	Altium Vault - TI	CMP-0027262-3	0.6	0.3	0.26	0.18		Digi-Key	541-10.0KAABCT-ND	Newark	71R4422
104	R31	RES, 10.0 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW020110K0FKED	1	Altium Vault - TI	CMP-0027262-3	0.6	0.3	0.26	0.18		Digi-Key	541-10.0KAABCT-ND	Newark	71R4422
105	R32	RES, 10.0 k, 1%, 0.05 W, 0201	E	Vishay-Dale	CRCW020110K0FKED	1	Altium Vault - TI	CMP-0027262-3	0.6	0.3	0.26	0.18		Digi-Key	541-10.0KAABCT-ND	Newark	71R4422
106	SH-J1	Shunt, 100mil, Gold plated, Black	Y	Samtec	SNT-100-BK-G	1	Altium Vault - TI	CMP-0003623-1						Digi-Key	SNT-100-BK-G-ND		
107	SH-J2	Shunt, 100mil, Gold plated, Black	Y	Samtec	SNT-100-BK-G	1	Altium Vault - TI	CMP-0003623-1						Digi-Key	SNT-100-BK-G-ND		
108	TP1	Test Point, Miniature, Red, TH	Y	Keystone	5000	1	Altium Vault - TI	CMP-0055137-1						Digi-Key	36-5000-ND	Mouser	534-5000
109	TP2	Test Point, Compact, SMT	Y	Keystone	5016	1	Altium Vault - TI	CMP-0055153-1						Digi-Key	36-5016TR-ND	Mouser	534-5016
110	TP3	Test Point, Compact, SMT	Y	Keystone	5016	1	Altium Vault - TI	CMP-0055153-1						Digi-Key	36-5016TR-ND	Mouser	534-5016
111	U1	BQ257x HotRod	NKNOW	Texas Instruments	BQ25798RQM	1	Altium Vault - TI	CMP-0088662-2			1mm						
112	U2	500-mA, Low IQ, Small Size, Low Dropout Regulator, DBV0005A (SOT-23-5)		Texas Instruments	TLV75533PDBVR	1	Altium Vault - TI	CMP-0074640-3	2.8	2.9	1.45	8.12	14.82				
113	U3	3.5V to 28V Input, 5A, 570kHz Step-Down Converter with Eco-mode, DDA0008E (SOIC-8)	Y	Texas Instruments	TPS54531DDAR	1	Altium Vault - TI	CMP-0067056-2	5	6.2	1.7	31	57.4				
114	U4	USB Type-C and USB PD Controller with Integrated Power Switches Optimized for Power Applications	NKNOW	Texas Instruments	TPS25750DRJK	1	Altium Vault - TI	CMP-0090338-5			0.8mm						
115	U5	256 kb I2C CMOS Serial EEPROM, SOIC-8	Y	ON Semiconductor	CAT24C256WI-G	1	Altium Vault - TI	CMP-0005314-2	5.99	4.9	1.75	29.351	55.131	Digi-Key	CAT24C256WI-G-ND	Newark	06R0552
116	U6	22-V Precision Surge Protection Clamp, DRV0006A (WSON-6)		Texas Instruments	TVS2200DRVR	1	Altium Vault - TI	CMP-0077834-1	2	2	0.8	4	9				
117	C2	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	0	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D
118	C3	CAP, CERM, 10 uF, 25 V, +/- 20%, X5R, 0603	Y	MuRata	GRT188R61E106ME13D	0	Altium Vault - TI	CMP-0007501-5	1.6	0.8	1	1.28	4.68	Digi-Key	490-12323-1-ND	Mouser	81-GRT188R61E106ME3D

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