

Bill of Materials

Project Number: P234
Project Revision: 0.3
Project File Name: BAS_Tower1.Pjtb
Assembly Variant: None
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Part Number	QTY	Designator	Description	Manufacturer Part Number	Footprint	Layer	Quantity
CA0001		C13, C14, C15, C16, C43, C44, C45, C240, C241, C242, C243, C250, C251, C252, C253, C301, C302, C303, C304, C305, C306	10µf 16V 10% XSR	GRM218RAC106ME15L	D385	Top, Bottom	21
CA0002		C6, C7	4.7µf 16V 10% XSR	C14888R1C475K80AC	D3603	Top	2
CA0003		C107, C08, C205, C206, C207, C208, C209, C210, C211, C213, C214, C215, C216, C217, C218, C219, C220, C221	1µf 16V 10% XSR	C14888R1C105K80AA	D3603	Top, Bottom	18
CA0005		C18, C19, C20, C21, C22, C23, C25, C26, C27, C28, C29, C30	10µf 35V 10% XSR	C2012GR1V10M425AC	D385	Top	12
CA0007		C108, C109, C106, C201, C202, C203, C242	47µf 16V 20% XSR	EMK255AB475M8P	C1210	Top, Bottom	7
CA0008		C101, C102, C106	10µf 16V 20% XSR	GRM188R1C105MAA0D	D3603	Top	3
CA0010		C110, C111, C246	1000µf 16V 10% XTR	GM156R1C1000A55	D3402	Top, Bottom	3
CA0016		C232, C233	4pf 50V 0.25pf C0H	UM118C0404C0P	D3402	Top	2
CA0021		C245, C247, C248, C249, C25, C256, C257, C258	10µf 50V 10% XTR	C0805C100K0RAC	D385	Top, Bottom	8
CA0024		C4, C37	10µf 63V 10% XTR	GRM32871105MA03	C1210	Top	2
CA0027		C1, C2, C3, C5	1µf 100V 15% XTR	GRM32ERT2A100A001	C1210	Top	4
CA0029		C9, C10, C24, C31, C222, C223, C224, C225, C226, C227, C229, C231	1000µf 50V 10% XTR	CGA283R7R1H10M0508B	D3402	Top	12
CA0030		C33	1.2µf 50V 10% XTR	GM156R1H122MA03D	D3402	Top	1
CA0031		C17, C38	1µf 50V 1% COG	GR175R050H050A020	D3402	Top	2
CA0032		C228, C230	1800µf 10V 10% XSR	GRM155R01A180E1YD	D3402	Top	2
CA0034		C36	680µf 50V 20%	UPW118A180F04	RL_16_7.5_20	Top	1
CA0035		C11, C12, C38, C39, C42	22µf 10V 20% XSR	08050222AAAT2A	D385	Top	5
CA0037		C8	10µf 50V 5% COG	C0402L8P05W08W06	D3402	Top	1
CA0038		C41, C244, C254	4.7µf 100V 10% XSR	JAMC258A75M8PPE	C1210	Top, Bottom	3
CA0039		C40, C25, C26	10µf 40V 10% XTR	C1206W040M080E	C1210	Top, Bottom	3
CA0040		C35	3.3pf 50V 10% XTR	C04023R3708W03D	D3403	Top	1
CA0041		C34	47µf 50V 5% COG	C0402L48P05W08W03D	D3403	Top	1
CA0061		C260, C263	22µf 63V 20% XTR	MMH40W1122W04PPE	C224	Top	2
CA0067		C0103	100nF	100N49	100N49	Top	1
CC0012		H101, H102, H103, H104	Header 1x3P	68070630018EU	1x3P, 2.54mm	Top	4
CC0017		CC051	USB C connector Plug	USB4151-02-C	USB4151-02-C	Bottom	1
CC0021		CC0091, CC0302	USB4070-30-C	USB4070-30-C	USB4070-30-C	Top	2
CC0025		CC01, CC0102	USB C connector	USB4000-03-1.A	USB4000-03-1.A	Top	2
CC0067		CC0101	USB-C header	W007P152011	6x15P15-11	Top	1
CC0062		C201	280nF 50V 20PPM	68070624010M	403W	Top	1
D0001		D101, D102, D104, D105, D106, D107, D202, D203, D204	Led Green	KP-2012G00C	4x8005	Top	9
D0002		D1, D3, D103, D301, D302	USB 2 TVS Diode	7702US2830007R	SOT-3	Top, Bottom	5
D0007		D2, D4, D303, D304	USB 3 TVS Diode	4100P42E	SOT-3176-3	Top, Bottom	4
D0009		C102	Buffer IC	SN74VC125DRBVT	SOT-23-5	Top	1
IC0011		IC103	RT97420MGV	RT97420MGV	SOT-23	Top	1
IC0029		IC101	RT9742 High side power switch	RT9742GSL	SOT-23-5	Top	1
IC0031		IC2	3.8V TO 40V MPPT, 5A LOW TO SYNCRONOUS BUCK WITH	AP44601P-13	SO-8 4-P	Top	1
IC0032		IC1	USB-Interface IC USB TYPE-C POWER DELIVERY	BDW11100B	UCSPAL2C	Top	1
IC0034		IC201	USB-Interface IC PCI-e USB3.0 Host Ctr 3rd Gen	SP1022010B-301-BAC-A	2P8-48	Top	1
IC0035		IC5	NON-ISOLATED DC-DC CONVERTER, 500mA	AP44601P-13	SO-8 4-P	Top	1
IC0036		IC4	Non-Isolated DC-DC Converter 3.3V 500mA	IC-78E13-0.5	SP-3	Top	1
IC0037		IC3	DC-DC Switching Synchronous Buck Regulator, Adjustable, 3.8V	AP44611S0P-13	SO-8 4-P	Top	1
IC0038		IC204	8-Channel serial SPI bus EEPROM with High-Speed clock	AP44601P-13	SO-8	Bottom	1
IC0040		IC5, IC101, IC302	3.3V, 2 differential channel, 2-1 multiplexer/demultiplexer	AP44601P-13	SO-8 4-P	Top	1
IC0041		IC302, IC203	USB Type-C and USB PD Controller with Integrated Power Switches	TPS23750D	DFN16K-38	Bottom	2
IN0005		L1, L2	3.3µH 5A 30% 21mΩ	SRW645TA-38V1	SRW645TA	Top	2
IN0015		L3	12µH 3.3A 30% 5mΩ	SRW645TA-100A	SRW645TA	Top	1
IN0016		L4	12µH 1.5A 20% 135mΩ	ASR-4635-120A-1	ASR-4635	Top	1
ME0001		H1, H2, H3, H4, H5	Mounting Hole-M3		H04, M3	Top	5
ME0004		Loop G151	Loop G151		Loop, G151	Bottom	1
ME0006		Loop F45d1	Loop F45d1		Loop, F45d1	Top	1
ME0011		F141, F142, F145, F146	Fiducial Round 1mm		F14R, 1.0mm	Top, Bottom	4
ME0012		F143, F144, F147, F148	Fiducial Square 1mm		F14S, 1.0mm	Top, Bottom	4
ME0015		PP201, PP202, PP203, PP204, PP205, PP206, PP207, PP208	Programming point		PP_2MM	Bottom	8
MC0011		MC107	Outline of CMA	RPI CMA	RPI CMA Layout	Top	1
MC0012		MC103	RPI CMA Pin 1-100	DF-48W32-05-10005-0-4V	CMA, 201-100	Top	1
MC0013		MC102	RPI CMA Pin 101-200	DF-48W32-05-10005-0-4V	CMA, 101-200	Top	1
MC0014		MC103, MC104, MC105, MC106	RPI CMA Mounting Studs	477420151R	CMA-M	Top	4
RS0001		R102, R103, R108, R109, R110, R205, R206, R207, R208	1500 1% 100mW	MCW06K1500FTL	R0603	Top	9
RS0002		R106	10KΩ 5% 100mW	WR04K103FTL	R0603	Top	1
RS0006		R107	0Ω 100mW	WR04K00000FTL	R0603	Top	1
RS0007		R5	1000 1% 100mW	WR04K1000FTL	R0603	Top	1
RS0011		R12, R201, R202, R203, R204, R209, R212, R214	10KΩ 1% 62.5mW	WR04K1000FTL	R0402	Top, Bottom	8
RS0014		R10	150KΩ 1% 100mW	IC0603F15-07100K	R0603	Top	1
RS0015		R6, R101	12KΩ 1% 62.5mW	IC0603F12-1100K	R0603	Top	2
RS0020		R104, R105	2.2KΩ 5% 62.5mW	MCW04K22FTL	R0402	Top	2
RS0034		R8	20KΩ 1% 100mW 100PPM	RU150272002X	R0402	Top	1
RS0035		R11, R213	2.2KΩ 1% 62.5mW 100PPM	IC0603F22-0700K	R0402	Top	2
RS0036		R3	100KΩ 1% 62.5mW 100PPM	IC0603F10-1100K	R0402	Top	1
RS0037		R13	1KΩ 5% 62.5mW 100PPM	IC0603K1010K	R0402	Top	1
RS0038		R14, R15	5.1KΩ 1% 62.5mW 100PPM	IC0603F51-0700K	R0402	Top	2
RS0043		R7	11.2KΩ 1% 62.5mW 25PPM	RU150272002X	R0402	Top	1
RS0044		R9	2.94KΩ 1% 100mW 100PPM	IC0603F29-0700K	R0603	Top	1
RS0045		R16	200KΩ 1% 62.5mW 100PPM	IC0603F200K	R0402	Bottom	1
RS0047		R18, R20	150KΩ 1% 62.5mW 100PPM	IC0603F150K	R0402	Bottom	2
RS0050		R17, R19	68KΩ 1% 62.5mW 100PPM	IC0603F68K	R0402	Bottom	2
SW0001		SW101	Miniature Slide Switch	CS15001 MMS200	CS10, Series	Top	1
TR0009		TR1, TR2	30V, N-channel Trench MOSFET	FDMS760	PD7NB-5M	Top	2

Approved	Notes