

Bill of Materials

Project Number: P234
Project Revision: 0.4
Project File Name: BAS_DevKIT_PrfYcb
Assembly Variant: None
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Part Number QTY	Designator	Description	Manufacturer Part Number	Footprint	Layer	Quantity
CA0001	C110, C112, C113, C114, C117, C118, C119, C120, C203, C207, C404, C405	10µF 16V 10% XSR	GRM4218R47C10M4E15L	C0805	Top	12
CA0002	C227, C233	4.7µF 16V 10% XSR	C16000SR1C4750B00AC	C0603	Bottom	2
CA0003	C115, C116, C204, C205, C206, C208, C209, C210, C211, C212, C213, C214, C215, C216, C228, C234, C406, C407, C505	1µF 16V 10% XSR	C16000SR1C100B00AA	C0603	Top, Bottom	19
CA0005	C122, C123, C124, C125, C126, C127	10µF 35V 10% XSR	C2012SR1V10M1250AC	C0805	Top	6
CA0007	C403	47µF 16V 20% XSR	SMD225AB47M000MP	C1210	Top	1
CA0008	C504, C508, C509	10µF 16V 20% XSR	GRM188R47C10M0AALD	C0603	Top	3
CA0009	C109, C111, C229, C235	2.2µF 35V 10% XSR	C16000SR1C2250B00AC	C0603	Top, Bottom	4
CA0010	C506, C507	100nF 16V 10% X7R	CC01F150R7C100R403D	C0402	Top	2
CA0011	C502	100µF 16V 20% 15mcd 4000mA	165WPC100M	C2_36	Top	1
CA0012	C201, C202, C401, C402, C501	330µF 16V 20% 16mcd 4100mA	165WPC1330M	EC_17	Top	5
CA0013	C217	10nF 16V 10% X7R	GRM1150R7C100R01D	C0402	Bottom	1
CA0024	C101, C102, C103, C104	10µF 6.3V 10% X7R	GRM420R71C10M0A12	C1210	Top	4
CA0025	C105, C106	10µF 25V 10% XSR	CL31A156AH000AAE	C1206	Top	2
CA0027	C225, C231	1µF 100V 15% X7R	GRM430R72A100M0A01	C1210	Bottom	2
CA0028	C224, C226, C230, C232	100nF 100V 15% X7R	GRM420R72A100M0A01	C1210	Bottom	4
CA0029	C107, C128	100nF 50V 10% X7R	CLJ420X07R1H100M0008B	C0402	Top	2
CA0030	C130	1.2nF 50V 10% X7R	CC01F150R7C102M0A1D	C0402	Top	1
CA0031	C121, C129	1nF 50V 1% XGG	GRM1150R7C100R01D	C0402	Top	2
CA0032	C1202	100kΩ	10029449	102M	Top	1
CO0012	J501, J502, J503, J504, J505, J506	Header 1x2P	6800W306019EGU	1X2P_2.54mm	Top	6
CO0015	J701	DC Jack 36V eT10A	PI-82BH	PI-82BH	Top	1
CO0016	CO101	SMD300C-UB	401780002	S012005	Top	1
CO0021	CO301, CO302, CO303	USB4070-30-C	USB4070-30-C	USB4070-30-C	Top	3
CO0025	CO501	USB C connector	USB4000-03-1-A	USB4000-03-1-A	Top	1
CO0027	CO502	eSD Card holder	6.93071E+11	6.93071E+11	Top	1
CR0006	X201	25MHz 3.3V 50PPM	ASE-25.000M42-UC-1	ASE-XX	Bottom	1
DI0001	D207, D502, D503, D504, D505, D506	LED Green	RP-2012502K	led9805	Top	6
DI0002	D201, D202, D203, D501	USB 2 TVS Diode	TPD2EUSB300RTR	SOT-3	Top	4
DI0007	D204, D205, D206	USB 3 TVS Diode	PVSB3FA22	SOT-1176-1	Top	3
DI0008	D701	Zener Diode 36V 200mW	BZT52C36S	SOD-323	Top	1
F0004	F101	52V/10A	CH10	F1206	Top	1
F0005	F103	65V/2A	SF-1206A5200M-2	F1206	Top	1
F0006	F104	65V/3A	SF-1206A5300M-2	F1206	Top	1
F0007	F105	65V/0.5A	SF-1206A0500M-2	F1206	Top	1
IC0007	IC104	DC-DC 12Vin-3.3Vout/3A	HELD71203AF	HELD71203A.x	Top	1
IC0009	IC502	Buffer IC	SN74VHC125B01	SOT-23-5	Top	1
IC0011	IC501	RT9142SN5GV	RT9142SN5GV	SOT-23	Top	1
IC0014	IC201	USB534B	USB534B-50002X	QFN-44	Top	1
IC0022	IC103	DC-DC 12Vin-5Vout/2A	HELD71202A-G	HELD71202A.x	Top	1
IC0023	IC105	DC-DC 4.8Vin-1.2Vinout/0.6A	TPS9A0710PPT	TPS9A07A	Top	1
IC0024	IC101	DC-DC 36Vin-12Vout/2A	RPW412-1.0	RPW401	Top	1
IC0028	IC203, IC204	USB Type-C Power Delivery Controller	BD93W21F-L2	SO8-16	Bottom	2
IC0029	IC503	RT9142 High side power switch	RT9142GGJ5	SOT-23-5	Top	1
IC0031	IC102	3.8V TO 40V INPUT, SA LOW IQ SYNCHRONOUS BUCK WITH	MP44691P-13	SO-8-EP	Top	1
IN0004	L101	MS4016E2CAB2G1	MS4016E2CAB2G1	MS4016	Top	1
IN0005	L102	3.3µH 5A 30% 21mΩ	SRM6045TA-3027	SRM6045TA	Top	1
ME0002	H1, H2, H3, H4	Mounting Hole M4		HOLE_M4	Top	4
ME0004	Logo G15	Logo G15 1		Logo_G15_1	Top	1
ME0006	Logo F1&L&D	Logo F1&L&D 2		Logo_F1&L&D_2	Top	1
ME0011	Fid1, Fid3, Fid6, Fid8	Fiducial Round 1mm		FidR_1.0mm	Top, Bottom	4
ME0012	Fid2, Fid4, Fid5, Fid7	Fiducial Square 1mm		FidS_1.0mm	Top, Bottom	4
MO0001	MO501	Outline of CM4	RPI CM4	RPICM4_Layout	Top	1
MO0012	MO501	RPI CM4 Pin 1-100	DF-40HC13 (S-10005-0-4V)	CM4_001-100	Top	1
MO0013	MO502	RPI CM4 Pin 101-200	DF-40HC13 (S-10005-0-4V)	CM4_101-200	Top	1
MO0014	MO503, MO504, MO505, MO506	RPI CM4 Mounting Studs	W774030151R	CM4-M	Top	4
MO0015	MO406	Outline of ZeroW	RPI Zero W	RPIZeroW_Layout	Top	1
MO0016	MO402, MO403, MO404, MO405	RPI ZeroW Mounting Studs	W774030151R	CM4-M	Top	4
MO0017	MO401	RPI ZeroW Header 1-40		6.1E-13	Top	1
RS0001	R211, R501, R505, R506, R507, R509	150Ω 1% 100mW	MCW0604K1500FTL	R0603	Top	6
RS0002	R201, R204, R207, R208	4.7kΩ 1% 100mW	WR06A4702FTL	R0603	Bottom	4
RS0003	R101, R103, R202, R203, R214, R216, R217, R218, R219, R504	10kΩ 5% 100mW	WR06A103 JTL	R0603	Top, Bottom	10
RS0007	R105, R104	100Ω 1% 100mW	WR06A1000FTL	R0603	Top	2
RS0011	R512	10kΩ 1% 62.5mW	WR06A1000FTL	R0402	Top	1
RS0014	R212, R213	100kΩ 1% 100mW	RC0603R0R-07100KL	R0603	Top	2
RS0015	R105, R215, R508	1.2kΩ 1% 62.5mW	RC04020R-13120LS	R0402	Top	3
RS0020	R502, R503	2.2kΩ 5% 62.5mW	MCW0604K22 JTL	R0603	Top	2
RS0032	R205, R206	10mΩ 5% 100mW 100PPM	RC0603R0R-10100KL	R0603	Bottom	2
RS0033	R510	22kΩ 1% 62.5mW 100PPM	MCW0604K2202FTL	R0402	Top	1
RS0034	R106	20kΩ 1% 100mW 100PPM	ER130ZF2002K	R0402	Top	1
RS0035	R107	2.2kΩ 1% 62.5mW 100PPM	RC04020R-07220LS	R0402	Top	1
RS0037	R511	1kΩ 5% 62.5mW 100PPM	RC04020R-1210LS	R0402	Top	1
RS0038	R209, R210	5.1kΩ 1% 62.5mW 100PPM	CR06W04025K10R4EDC	R0402	Top	2
SW0001	SW501, SW502	Miniature Slide Switch	DS10201 M2C20N1	DS10_Series	Top	2
TR0002	TR002, TR003	40V/10mΩ-MOSFET N-10A	NR4010A10N10	NR40M-8	Bottom	2
TR0007	TR101	30V-PNP-E	2N7230G2A	SOT-23-3	Top	1
TR0008	TR501	30 V, N-channel Trench MOSFET	PLA72020E	SOT-23	Top	1

Approved

Notes