RAB4-RTK BOM Rev.0

Part Description	Specification	Value	Designator	Footprint	Quantity	Manufacturer	Manufacturer Part No.		Supplier part number
Ceramic Capacitor	X5R, 6.3V, 10%	1uF	C1, C2, C7, C39	C0402	4	Samsung EM	CL05A105KQ5NNNC		KKK18264
Ceramic Capacitor	NP0, 50V, 5%	33pF	C3, C4, C5, C6, C9, C10, C11, C12, C22, C27, C30, C31, C43, C44, C47, C48, C49, C50, C51, C52, C54, C55, C57, C58, C59, C60, C67, C68, C69, C70, C75, C76, C77, C78, C83, C84, C85, C86	C0402	38	AVX	04025A330JAT2A	Rutronik	KKK13594
Ceramic Capacitor	X7R, 25V, 10%	4.7nF	C8	C0402	1	KEMET	C0402C472K3RAC7867		KKK26721
Ceramic Capacitor	X7R, 50V, 10%	100nF	C13, C16, C18, C20, C23, C24, C28, C32, C36, C38, C40, C45, C46, C53, C56, C63, C64, C65, C66, C71, C72, C73, C74, C79, C80, C81, C82, C87, C88, C89, C90	C0402	31	Yageo	CC0402KRX7R9BB104	Rutronik	KKK23619
Niobium Oxide Capacitor	6.3V, 20%	47uF	C14	Case-B	4	AVX	NOJB476M006RWJ	Dutropile	KTA6684
Ceramic Capacitor	X5R, 6.3V, 10%	22uF	C15, C29, C33, C35, C37, C41, C62		7	Samsung EM	CL21A226KQQNNNG		KKS2632
Ceramic Capacitor	NP0, 50V, 5%	100pF	C17, C19, C21, C25, C42	C0402	5	Yageo	CC0402JRNPO9BN101	Rutronik	KKK12260
Polymer Electrolytic Capacitor	6,3V 20%	220uF	C26	Case-B	1	KEMET	T520B227M006ATE070		KTA8521
Ceramic Capacitor	X7R, 50V, 5%	330pF	C34	C0402	1	Yageo	CC0402KRX7R9BB331		KKK15237
Tantalum Capacitor Nano SIM Holder	6,3V 20% 6 pins	1000uFx6.3V 104224-0820	C61 CON1	7361-38 104224-0820	1	AVX molex	TPSV108M006R0040 104224-0820		KTA6307 SIMCRD1016
TVS Diode	5V, 0.225kW	DFLT5V0A-7	D1	PowerDI123	1	Diodes Inc.	DFLT5V0A-7		DTRL9639
TOPLED® E1608	GREEN, 20mA	KGDELLS1.22-JGKH-24-0-2-9	<u> </u>	KG DELLS GREEN	3	OSRAM	KGDELLS1.22-JGKH-24-0-2-S	_	LEDATV1791
Small signal Schottky diode	30V, 0.2A	BAT54WT-7	D3, D4	SOD-523	2	Diodes Inc.	BAT54WT-7		DSKY5741
ESD Diode	0.15pF, 3.3V	ESD150-B1-W0201	D5	SG-WLL-2	1		ESD150B1W0201E6327XTSA1	_	ESD150B1W0201E6327XTSA1
High I²t Chip fuse	32V, 2A	CC12H2A-TR	F1, F2	FUSE1206	2	EATON	CC12H2A-TR	_	FUSE10755
Inductor Ferrite Bead	5%, 180mA 120R, 2A	68nH BLM18PG121SH1D	L1, L2 L3	L0402 L0603	2	MuRata muRata	LQG15HN68NJ02D BLM18PG121SH1D		IND10329 FE3867
Arduino Connector	10 pos. 2,54mm	RS1-A5-10-G-SGM394-HT	P1	HDR1X10 ARDUING) 1	Adam Tech	RS1-A5-10-G-SGM394-HT		RS1-A5-10-G-SGM394-HT
USB C DUAL SMT ON BOARD	5A, 20V, 16-pin	DX07S016JA1R1500	P2	DX07S016JA1R1500		JAE	DX07S016JA1R1500		CONN3002
Arduino Connector	8 pos. 2,54mm	RS1-A5-08-G-SGM394-HT	P3, P5	HDR1X8_ARDUINO	2	Adam Tech	RS1-A5-08-G-SGM394-HT	Rutronik	RS1-A5-08-G-SGM394-HT
Arduino Connector	6 pos. 2,54mm	RS1-A5-06-G-SGM394-HT	P4	HDR1X6_ARDUINO	1	Adam Tech	RS1-A5-06-G-SGM394-HT	_	RS1-A5-06-G-SGM394-HT
SMA Connector	Fermale	73391-0083	P6, P7, P8, P9	73391-0083	4	molex	73391-0083		73391-0083
N-Channel MOSFET	20V, 0.63A	DMG1012T-7	Q1, Q2, Q3, Q4, Q5, Q6, Q7	SO1-523_custom		Diodes Inc.	DMG1012T-7	Rutronik	TMOSS6623
Thick Film Resistor	5% 0,063W	1K	R1, R7, R21	R0402	3	Yageo	RC0402JR-071KL	Rutronik	WRC33833
Thick Film Resistor	5% 0,063W	5.1K	R2, R3	R0402	2	ASJ	CR10-512-JK		WRC54946
Thick Film Resistor	5% 0,063W	10K	R4, R6, R8, R9, R10, R36, R37		7	ASJ	CR10-103-JK		WRC40976
Thick Film Resistor	5% 0,063W	1M	R5	R0402	1	ASJ	CR10-105-JK		WRC35254
Thick Film Resistor Thick Film Resistor	1% 0,063W 1% 0,063W	75K 49.9K	R12 R13, R15, R18, R19, R23	R0402 R0402	5	ASJ Yageo	CR10-7502-FK RC0402FR-0749K9L		WRC50183 WRC34049
Thick Film Resistor	1% 0,063W	150K	R14	R0402	1	Yageo	RC0402FR-07150KL		WRC34764
Thick Film Resistor	1% 0,063W	20K	R16	R0402	1	ASJ	CR10-2002-FN		WRC53526
Thick Film Resistor	1% 0,063W	470K	R17	R0402	1	Yageo	RC0402FR-07470KL	_	WRC34703
Thick Film Resistor	5% 0,063W	0R	, , , ,	R0402	4	Yageo	RC0402JR-070RL		WRC34031
Low Capacitance Multilayer Varistor Tactile Button	18V, 4A, 15mJ	USB0002DP	RV1	USB0002 EVQPUA	1 2	AVX	USB0002DP		WVDR3535 SWITCH10308
Thick Film Resistor	1.6N, Right Angle, 50mA 5% 0,063W	OR	S1, S2 SB1, SB2, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15, SB16, SB17, SB18, SB19, SB20, SB21, SB22, SB23, SB24, SB25	SB_0402	24	Panasonic Yageo	EVQPUC02K RC0402JR-070RL		WRC34031
VERTICAL MOUNT SMT - J BEND	6V DC, 0.3A	JS202011JCQN	SW1	JS202011JCQN	1	C&K	JS202011JCQN	Rutronik	SWITCH10809
SMT Test Point	3.81*2.03	P/N5019	TP1	5019_keystone	1	Keystone Electror	P/N5019	Rutronik	BAT4950
LTE C1 THREADX GNSS with 2G/3G Fallback	LTE C1, 2G, 3G	LE910C1WX03T037100	U1	XCVR_LE910C1WX	01	Telit Cinterion	LE910C1WX03T037100		GSM2137
RTK GNSS All-constellation Multi-frequency	3.3V, 180mA	UM980	U2	UM980	1	UNICORE COMM			GPS1468
2.0A Inductor Built-in Step-Down DC/DC Converter	6V, 2A	MYRGM080200X41RA	U3	MYRGM080200 MYRGP080060	1	MuRata MuRata	MYRGM080200X41RA		MYRGM080200X41RA MYRGP080060W21RF
Inductor Built-in Step-Down "mini DC/DC" Converter Load Switch IC with Over current limited function	6V, 600mA 0.4A, 5.5V	MYRGP080060W21RF TCK22946G,LF	U4 U5	WCSP6E	1	TOSHIBA	MYRGP080060W21RF TCK22946G,LF	_	ICGDRV1398
Single Bit Voltage Level Translator	5.5V, 1.65V	74LVC1T45FZ4-7	U6, U8, U9, U10, U11, U12, U13, U14,	X2-DFN1410-6	9	Diodes Inc.	74LVC1T45FZ4-7		ICLOG10841
150mA Ultra-Low Quiescent Current LDO with Enable	3.3V, 150mA	AP7354-33FS4-7	U15 U7	X2-DFN1010-4	1	Diodes Inc.	AP7354-33FS4-7	Rutronik	ICSPR10461