

RAB3-Radar Rev0 BOM

Part Description	Specification	Value	Designator	Footprint	Quantity	Manufacturer	Manufacturer Part No.	Supplier	Supplier part number
Ceramic Capacitor	X5R, 6.3V, 10%	1uF	C1, C5, C8, C11, C16, C17, C18, C20, C21, C22, C27, C29, C40, C42	C0402	14	Samsung EM	CL05A105KQ5NNNC	Rutronik	KKK18264
Ceramic Capacitor	NP0, 50V, 5%	33pF	C2, C6, C23, C24, C28, C30, C33, C36, C37, C41, C43, C44, C45, C48, C49, C50, C53, C54, C57	C0402	19	AVX	04025A330JAT2A	Rutronik	KKK13594
Ceramic Capacitor	X5R, 6.3V, 20%	10uF	C3, C4, C7, C10, C13, C14, C15	C0402	7	Samsung EM	CL05A106MQ5NUNC	Rutronik	KKS2215
Ceramic Capacitor	X7R, 50V, 10%	100nF	C9, C12, C25, C26, C34, C35, C38, C39, C46, C47, C51, C52, C55, C56	C0402	14	Yageo	CC0402KRX7R9BB104	Rutronik	KKK23619
Ceramic Capacitor	X7R, 25V, 10%	4.7nF	C19	C0402	1	KEMET	C0402C472K3RAC7867	Rutronik	KKK26721
Niobium Oxide Capacitor	6.3V, 20%	47uF	C31, C32	Case-B	2	AVX	NOJB476M006RWJ	Rutronik	KTA6684
TOPLED® E1608	GREEN, 20mA	KGDELLS1.22-JGKH-24-0-2-S	D1	KG_DELLS_GREEN	1	OSRAM	KGDELLS1.22-JGKH-24-0-2-S	Rutronik	LEDATV1791
TOPLED® E1608	RED, 20mA	KSDELLS1.22-JHKI-1-0-2-S	D2	KS_DELLS_RED	1	OSRAM	KSDELLS1.22-JHKI-1-0-2-S	Rutronik	LEDATV2344
High I <sup>2</sup> t Chip fuse	32V, 2A	CC12H2A-TR	F1	FUSE1206	1	EATON	CC12H2A-TR	Rutronik	FUSE10755
Ferrite Bead	600Ohm, 0.23A	BLM15PX601SN1D	L1, L2, L3, L4, L5, L6, L7, L8	L0402	8	muRata	BLM15PX601SN1D	Rutronik	FE4904
Clock Oscillator	80 MHz, ±20ppm	80 MHz	OSC1	OSC2016	1	Kyocera AVX	KC2016Z80.0000C1KX00	Rutronik	KC2016Z80.0000C1KX00
Arduino Connector	10 pos. 2.54mm	AW140-EG-G10B	P1	HDR1X10_ARDUINO	1	ASSMANN WSW	AW140-EG-G10B	Rutronik	AW140-EG-G10B
Arduino Connector	8 pos. 2.54mm	AW140-EG-G08B	P3, P5	HDR1X8_ARDUINO	2	ASSMANN WSW	AW140-EG-G08B	Rutronik	AW140-EG-G08B
Arduino Connector	6 pos. 2.54mm	AW140-EG-G06B	P4	HDR1X6_ARDUINO	1	ASSMANN WSW	AW140-EG-G06B	Rutronik	AW140-EG-G06B
N-Channel MOSFET	20V, 0.63A	DMG1012T-7	Q1	SOT-523_custom	1	Diodes Inc.	DMG1012T-7	Rutronik	TMOSS6623
Thick Film Resistor	5% 0,063W	220R	R1, R2	R0402	2	Yageo	RC0402JR-13220RL	Rutronik	WRC54705
Thick Film Resistor	5% 0,063W	150R	R3	R0402	1	Yageo	RC0402JR-07150RL	Rutronik	WRC33815
Thick Film Resistor	1% 0,063W	49.9K	R5, R6	R0402	2	Yageo	RC0402FR-0749K9L	Rutronik	WRC34049
Thick Film Resistor	5% 0,063W	0R	SB1, SB2, SB3, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15, SB16	SB_0402	16	Yageo	RC0402JR-070RL	Rutronik	WRC34031
60 GHz Radar Sensor	57GHz ~ 64GHz, 3.3V	BGT60TR13CE6327XUMA1	U1	PG-VF2BGA-40-1	1	Infineon Technologies	BGT60TR13CE6327XUMA1	Rutronik	BGT60TR13CE6327XUMA1
60GHz Smart Sensor Micro-Module	57GHz ~ 64GHz, 5.5V	NJR4652F2S1	U2	NJR4652	1	NISSHINBO	NJR4652F2S1	Rutronik	NJR4652F2S1
Single Bit Voltage Level Translator	3.6V, 1.2V	74AVC1T45FZ4-7	U3, U5, U6, U8, U9, U10	X2-DFN1410-6	6	Diodes Inc.	74AVC1T45FZ4-7	Rutronik	74AVC1T45FZ4-7
250mA High PSRR Low Noise LDO with Enable	5.5V, 1.8V, 250mA	AP7353-18FS4-7	U4	X2-DFN1010-4	1	Diodes Inc.	AP7353-18FS4-7	Rutronik	AP7353-18FS4-7
150mA Ultra-Low Quiescent Current LDO with Enable	5.5V,3.3V, 150mA	AP7354-33FS4-7	U7	X2-DFN1010-4	1	Diodes Inc.	AP7354-33FS4-7	Rutronik	ICSPR10461