

RAB5-OSIRE Rev0 BOM

Part Description	Designator	Footprint	Quantity	Value	Specification	Manufacturer	Manufacturer Part No.	Supplier	Supplier part number
Ceramic Capacitor	C1, C4, C5	C0805	3	22uF	X5R, 25V, 20%	Samsung EM	CL21A226MAYNNNE	Rutronik	KKK24951
Ceramic Capacitor	C2, C6, C7, C9, C11, C13, C15	C0402	7	100nF	X7R, 50V, 10%	Yageo	CC0402KRX7R9BB104	Rutronik	KKK23619
Ceramic Capacitor	C3	C0402	1	22pF	NP0, 50V, 1%	AVX	04025A220FAT2A	Rutronik	KKK25561
Ceramic Capacitor	C8, C10, C12, C14, C16	C0402	5	1uF	X7R, 6.3V, 10%	AVX	04026C105K4T2A	Rutronik	KKK1598
PCB Mount SMD Header	CON1, CON2	214012-E	2	214012-E	4-pin, 1.27mm, 5.4A	TE Connectivity Erni	214012-E	DigiKey	2684-214012-ETR-ND
High I <sup>2</sup> t Chip fuse	F1	FUSE1206	1	CC12H2A-TR	32V, 2A	EATON	CC12H2A-TR	Rutronik	FUSE10755
OSIRE® Automotive Intelligent RGB LED	LED1, LED2, LED5, LED6	E3731	4	E3731i	Smart RGB, 50mA	ams OSRAM	KRTBID2LM31.31-1R-JW+1G-J3+1B-	Rutronik	LEDATV3093
OSIRE RGB side looker LED	LED3, LED4	E5515	2	E5515	RGB, 20mA, Side	ams OSRAM	KRTBAELPS2.32-1V7A-JW+6B5C-D8+	Rutronik	LEDATV3332
Automotive DC/DC Converter	MOD1	RPX-1.5Q	1	RPX-1.5Q-R	8-30V, 1.5A	RECOM	RPX-1.5Q-R	Rutronik	ICDCDC5503
Arduino Connector	P1	HDR1X10_ARDUINO	1	RS1-A5-10-G-SGM-.394-HT	10 pos. 2.54mm	Adam Tech	RS1-A5-10-G-SGM-.394-HT	Rutronik	CONN13372
Header, 3-Pin	P2	2.54mm 3pins_right	1	334-1-003-1-T-RR1-1291	3 pos. 2.54mm Right Angle	mpeGARRY	334-1-003-1-T-RR1-1291	Rutronik	334-1-003-1-T-RR1-1291
Arduino Connector	P3, P5	HDR1X8_ARDUINO	2	RS1-A5-08-SGM-.394-HT	8 pos. 2.54mm	Adam Tech	RS1-A5-08-SGM-.394-HT	Rutronik	CONN13371
Arduino Connector	P4	HDR1X6_ARDUINO	1	RS1-A5-06-SGM-.394-HT	6 pos. 2.54mm	Adam Tech	RS1-A5-06-SGM-.394-HT	Rutronik	CONN13370
Header, 2-Pin	P6	2pin_2.54mm_vertical_jumper	1	SL 20 THR 124 2 G	2pin, 2.54mm, vertical	Fischer Elektronik	SL 20 THR 124 2 G	Rutronik	SL 20 THR 124 2 G
P-Channel MOSFET	Q1	SOT-523_custom	1	DMP31D7LTQ-7	-30V, -0.36A	Diodes Inc.	DMP31D7LTQ-7	Rutronik	DMP31D7LTQ-7
N-Channel MOSFET	Q2	SOT-523_custom	1	DMN33D8LTQ-13	30V, 0.115A	Diodes Inc.	DMN33D8LTQ-13	Rutronik	DMN33D8LTQ-13
Thick Film Resistor	R1, R2, R9, R10, R11, R12, R13	R0402	7	10K	5% 0,063W	Yageo	RC0402JR-1310KL	Rutronik	WRC51147
Thick Film Resistor	R3	R0402	1	75K	1% 0,063W	ASJ	CR10-7502-FK	Rutronik	WRC50183
Thick Film Resistor	R4, R5, R7, R8, R15	R0402	5	100K	5% 0,063W	ASJ	CR10-104-JK	Rutronik	WRC34858
Thick Film Resistor	R6	R0402	1	14K3	1% 0,063W	Yageo	AC0402FR-0714K3L	Rutronik	WRC59139
Thick Film Resistor	R14	R1206	1	0R	1A, 0,25W	Yageo	AC1206JR-130RL	Rutronik	WRC60715
Thick Film Resistor	SB1, SB2, SB3, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15, SB16, SB17, SB18, SB19, SB21, SB22, SB23, SB24, SB25, SB26, SB27	SB_0402	26	0R	5% 0,063W	Yageo	RC0402JR-070RL	Rutronik	WRC34031
VERTICAL MOUNT SMT - J BEND	SW1, SW2	JS202011JCQN	2	JS202011JCQN	6V DC, 0.3A	C&K	JS202011JCQN	Rutronik	SWITCH10809
SMT Test Point	TP1	5019_keystone	1	P/N5019	3.81*2.03	Keystone Electronics	P/N5019	Rutronik	BAT4950
Standalone intelligent driver	U1	QFN16_Custom	1	AS1163	7V, 600mW	ams OSRAM	AS1163	Rutronik	AS1163