





karabas-pro-revD

BT1,	Ref	Q-ty	Value	Footprint
C18, C19, C20, C21, C22, C23, C24, C25, C26, C26, C26, C26, C26, C26, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C41, C41, C42, C43, C44, C46, C47, C49, C51, C2 2100F C0805 C3, 10 21uF C0805 C4, C5, 222p C0805 C6 11nF C0805 C7, C8, C9, 3100F Tantalum D C48 1470uF CP, Radial D8,0mm_P3,80mm C50 1220uG CP, Radial D8,0mm_P3,80mm C50 1220uG CP, Radial D7,5mm_P2,50mm C60N1, 1CF-CARD TE_1734451-1 C0N2, 1SD SD_TE_2041021 C0N3, 1VGA DSUB-15-HD_Fmale C0N4, 1Joystick DSUB-9_Male C0N4, 1Joystick DSUB-9_Male C0N4, 1Joystick DSUB-9_Male C0N4, 1Joystick DSUB-9_Male C0N6, 1Mouse MDIN06SS C0N6, 1Mouse MDIN06SS C0N7, 1Audio Jack_3.5mm_CUI_SJ1-3535NG C0N8, 15V DC Barrelack Wuerth 6941xx301002 C0N8, 1Micro-SD Molex MicroSD (mirrored) D1, D2, D4, D6, D7, D8, D9 7 LED L0805 D1, D2, D4, D6, D7, D8, D9 1D7, D7, D8, D9 1D7, D7, D8, D9 1D7, D7,	BT1,	1	3V	-
C47, C49, C51,	C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38,			, and the second
C1, C2 C3, 10 C1, C2 C3, 10 C1, C5, C6 C3, 10 C1, C5, C9 C6 C6 C7, C8, C9, C9 C1, C7 C8 C9 C9 C9 C8 C1		20	1000	C090E
C3, 10 C4, C5, C4, C5, C5, C6 C1, 1nF C0805 C7, C8, C9, C48 C5, C8, C9, C6 C7, C8, C9, C8 C7, C8, C9, C8 C1, C8, C9, C9, C8, C9, C9, Radial_ D7, 5mm_P2, 50mm C8 C9, C8, C8, C9, C1, C9, C9, C9, C9, C9, C9, C9, C9, C9, C9				
C4, C5, C6				
C6 1 1nF C0805 C7, C8, C9, 3 10uF Tantalum D C48 1 470uF CP_Radial_D8.0mm_P3.80mm C50 1 220uG CP_Radial_D7.5mm_P2.50mm CON1, 1 CF-CARD TE_1734451-1 CON2, 1 SD SD_TE_2041021 CON3, 1 VGA DSUB-15-HD_Female CON4, 1 Joystick DSUB-9.Male CON6, 1 Keyboard MDIN06SS CON6, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CU_S1-3535NG CON8, 1 Micro-SD Molex MicroSD (mirrored) CON9, 1 Micro-SD Molex MicroSD (mirrored) D1, D2, D4, D6, D7,D8, D9 7 LED L0805 D5 1 1N5820 D_DO-201AD_P15.24mm_Horizont D3 1 BAT54C SOT-23 FB1 1 Ferrite Bead F0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA_JTAG IDC-Header_2x03, angled J3, 1 Floppy 5V PinHeader_2x04 <				
C7, C8, C9, C48 1 470uF CP_Radial_D8.0mm_P3.80mm C50 C50 C1 220uG CP_Radial_D7.5mm_P2.50mm CN1, CN2, CN3, CN3, CN4, CN4, CN5, CN5, CN5, CN6, CN6, CN6, CN7, CN7, CN8, CN8, CN8, CN8, CN8, CN8, CN8, CN8				
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CON1,				
CON2, 1 SD SD_TE_2041021 CON3, 1 VGA DSUB-15-HD_Female CON4, 1 Joystick DSUB-9_Male CON5, 1 Keyboard MDIN06SS CON6, 1 Mouse MDIN06SS CON6, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 1 5V DC BarrelJack_Wuerth_6941xx301002 CON9, 1 Micro-SD Molex MicroSD (mirrored) D1, D2, D4, D6, D7,D8, D9 7 LED L0805 D5 1 1N5820 D_DO-201AD_P15.24mm_Horizont D3 1 BAT54C SOT-23 FB1 1 Ferrite Bead F0805 J1, 1 Ferrite Bead F0805 J2, 1 FPGA JTAG IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_2x05, angled J3, 1 Floppy SV PinHeader_1x04 J4, 1 uBus PinHeader_1x04 J5, 1 AVR JTAG IDC-Header_2x03, angled J6, 1 AVR JTAG IDC-Header_2x03, angled J7, 1 ESP-BUS PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x03 J8 J8 L_12x12mm R1, R2, R3, 3 2k4 R0805 R1, R52, R58, R59, R60, 28 10k R0805 R6, R11, R14, R17, 4 1k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 R10, R3, R16, 3 2k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 R10, R13, R16, 3 2k R0805 R11, R64, R65, R66, R67, R68, R69, 7 300 R0805 R19, R20, 275 R0805				
CON3, 1 VGA DSUB-15-HD_Female CON4, 1 Joystick DSUB-9_Male CON5, 1 Keyboard MDIN06SS CON6, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 15V DC BarrelJack_Wuerth_6941xx301002 CON9, 1 Micro-SD Molex MicroSD (mirrored) D1, D2, D4, D6, D7,D8, D9 7 LED L0805 D5 1 1N5820 D_DO-201AD_P15.24mm_Horizont D3 1 BAT54C SOT-23 FB1 1 Ferrite Bead F0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_2x05, angled J3, 1 Floppy 5V PinHeader_1x04 J4, 1 uBus PinHeader_1x04 J5, 1 AVR JTAG IDC-Header_2x04, angled J6, 1 AVR UART PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x03 J7, 1 ESP-BUS PinHeader_2x05 L1, 1 Jumper PinHeader_1x03 L1, 1 SUB-SUB-1 SUB-SUB-SUB-SUB-SUB-SUB-SUB-SUB-SUB-SUB-				_
CON4,				
CON5, CON6, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mg_CUI_SJ1-3535NG CON8, 15V DC BarrelJack_Wuerth_6941xx301002 CON9, 1 Micro-SD Molex MicroSD (mirrored) D1, D2, D4, D6, D7,D8, D9 7 LED L0805 D5 1 1N5820 D_DO-201AD_P15.24mm_Horizont D3 1 BAT54C SOT-23 FB1 1 Floppy IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_2x05, angled J3, 1 Floppy 5V PinHeader_1x04 J4, 1 UBUS PinHeader_1x04 J5, 1 AVR UART PinHeader_2x03, angled J6, 1 AVR UART PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x05 JP2 1 Jumper PinHeader_1x06 J1 J30H - 68uH L_12x12mm R1, R2, R3, 3 J2k4 R0805 R4, R57 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R58, R59, R60, R6, R11, R14, R17, R7, R8, R21, R22, R23, R24, R64, R7, R48, R49, R50, R51, R52, R58, R59, R60, R6, R11, R14, R17, R10, R13, R16, R13, R16, R13, R16, R13, R16, R13, R16, R15, R18, R28, R29, R54, R55, R56, R62, R63	,			<u>=</u>
CON6, CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 1 5V DC BarrelJack_Wuerth_6941xx301002 CON9, 1 Micro-SD Molex MicroSD (mirrored) D1, D2, D4, D6, D7,D8, D9 7 LED L0805 D5 1 1N5820 D_DO-201AD_P15.24mm_Horizont D3 1 BAT54C SCT-23 FB1 1 Ferrite Bead F0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_2x05, angled J3, 1 Floppy V PinHeader_1x04 J4, 1 UBUS PinHeader_2x05, angled J5, 1 AVR JTAG IDC-Header_2x03, angled J6, 1 AVR JTAG IDC-Header_2x03, angled J7, 1 ESP-BUS PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x03 L1, 1 33UH - 68UH L_12x12mm R1, R2, R3, 32k4 R8, R49, R50, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R58, R59, R60, R6, R11, R14, R17, 4 1k R0805 R10, R13, R16, R28, R29, R54, R55, R56, R62, R63 10 V470 (510) R0805 R19, R20, 1 X* (see schematics) R0805	,		1 -	_
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CON8,	·			
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J1,				
J2, 1 FPGA JTAG IDC-Header_2x05, angled J3, 1 Floppy 5V PinHeader_1x04 J4, 1 uBus PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03, angled J6, 1 AVR UART PinHeader_1x04 J7, 1 ESP-BUS PinHeader_1x03 J1, 1 Jumper PinHeader_1x03 L1, 1 Jumper PinHeader_1x03 L1, 1 BC856 SOT-23 R4, R57 2 27 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R58, R59, R60, 28 10k R0805 R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 2k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 10 '470 (510) R0805 R61, R64, R65, R66, R67, R68, R69, 7 300 R0805 R53 1 X* (see schematics) R0805 R19, R20, 2 75 R0805				
J3,				<u> </u>
J4, 1 uBus PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03, angled J6, 1 AVR UART PinHeader_1x04 J7, 1 ESP-BUS PinHeader_2x05 JP2 1 Jumper PinHeader_1x03 L1, 1 33uH - 68uH L_12x12mm R1, R2, R3, 3 2k4 R0805 Q1, Q2, 1 BC856 SOT-23 R4, R57 2 27 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R58, R59, R60, 28 10k R0805 R6, R11, R14, R17, 4 1k R0805 R10, R13, R16, 3 2k R0805 R10, R13, R16, 3 2k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 10 '470 (510) R0805 R61, R64, R65, R66, R67, R68, R69, 7 300 R0805 R61, R64, R65, R66, R67, R68, R69, R53 1 X* (see schematics) R0805 R19, R20, 2 75 R0805				
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R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R58, R59, R60, 28 10k R0805 R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 2k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 10 '470 (510) R0805 R61, R64, R65, R66, R67, R68, R69, 7 300 R0805 R53 1 X* (see schematics) R0805 R19, R20, 275 R0805		2	27	R0805
R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 2k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 10 '470 (510) R0805 R61, R64, R65, R66, R67, R68, R69, 7 300 R0805 R53 1 X* (see schematics) R0805 R19, R20, 2 75 R0805	R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49,			
R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 2k R0805 R12, R15, R18, R28, R29, R54, R55, R56, R62, R63 10 '470 (510) R0805 R61, R64, R65, R66, R67, R68, R69, 7 300 R0805 R53 1 X* (see schematics) R0805 R19, R20, 275 R0805				
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R53 1 X* (see schematics) R0805 R19, R20, 275 R0805	R12, R15, R18, R28, R29, R54, R55,			
R53 1 X* (see schematics) R0805 R19, R20, 2 75 R0805			, ,	
R19, R20, 275 R0805		1		
	R19, R20,		, ,	

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R26, R27,	750	R0805
R61, 1	300	R0805
SW1, SW2, 2	SW_Push	SPST_Angled_PTS645Vx58-2LFS
SW3 1	SW_DIP_x04	SPSTx04_Piano_CTS_Series
SW4 1	SW_SPST	Slider button switch
U1, 1	EP4CE6E22C8N	QFP-144
	` ,	TSOP-I-48_18.4x12mm_P0.5mm
•	W25Q16 M25P16	SOIC-8_5.23x5.23mm_P1.27mm
U4, 1	EPM3128ATC100	LQFP-100_14x14mm_P0.5mm
U5, 1	ATMEGA328-AU	TQFP-32_7x7mm_P0.8mm
U6, 1	MB8877A	DIP-40_W15.24mm
U7, U8, 2	TXB0104PW	TSSOP-14_4.4x5mm_P0.65mm
,	DS1307Z+	SOIC-8_3.9x4.9mm_P1.27mm
U10, 1	ESP-12E	ESP-12E
U11, 1	TDA1543	DIP-8_W7.62mm
U12, 1	AMS1117-3.3	SOT-223-3
U13,	AMS1117-2.5	SOT-223-3
U14, 1	AMS1117-1.2	SOT-223-3
U15, 1	LM2596S-5.0	TO-263-5
U17, 1	74LS06	DIP-14_W7.62mm
U18, 1	74LS38	DIP-14_W7.62mm
,	50MHz	SG8002CA-4Pin_7.0x5.0mm
Y1, 1	32768Hz	AT310_D3.0mm_L10.0mm
Y2, 1	16MHz	HC49-S