





karabas-pro-revA

BT1, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C41, C42, C41, C42, C41, C42, C41, C41, C41, C41, C41, C41, C41, C41	Ref	Q-tv	Value	Footprint
C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, S100n C0805 C3, C38, C39, C40, C41, C42, C43, C44, S100n C0805 C4, C5, C2, C29, C30, C4, C5, C6, C7, C8, C9, 410uF Tantalum D C45, 1470uF CP_D12,5mm_P7.50mm CON1, 1CF-CARD TE_1734451-1 CON2, 1SD SD_TE_2041021 CON3, 1VGA DSUB-15-HD_Female CON4, 1Joystick 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 D1, 1 LED1 L0805 D1, 1 LED2 L0805 D1, 1 LBD4 L0805 D1, 1 LBD5 L0805 D1, 1 LBD4 L0805 D1, 1 LBD5 L0805 D1, 1 LBD4 L0805 D1, 1 LBD4 L0805 D1, 1 LBD5 L0805 D1, 1 LBD5 L0805 D1, 1 LBD5 L0805 D1, 1 LBD4 L0805 D1, 1 LBD5 L0805 D1, 1 LBD4 L0805 D1, 1 LBD4 L0805 D1, 1 LBD5 L0805 D1, 1 LBD5 L0805 D1, 1 LBD5 L0805 D1, 1 LBD4 L0805 D1, 1 LBD5				-
C17, C18, C19, C20, C21, C22, C23, C24, C25, C36, C37, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C4, C5, C4, C5, C4, C5, C4, C5, C5, C6, C7, C8, C9, C4, C5, C6, C7, C8, C9, C41, C97, C7, C8, C9, C45, C47, C87, C87, C87, C87, C87, C87, C87, C8				
C17, C18, C19, C20, C21, C22, C23, C24, C25, C36, C37, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C4, C5, C4, C5, C4, C5, C4, C5, C5, C6, C7, C8, C9, C4, C5, C6, C7, C8, C9, C41, C97, C7, C8, C9, C45, C47, C87, C87, C87, C87, C87, C87, C87, C8	C10, C11, C12, C13, C14, C15, C16,			
C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C44, C44, C44, C44, C44, C44	C17, C18, C19, C20, C21, C22, C23,			
C38, C39, C40, C41, C42, C43, C44, 35 100n C0805 C1, C2 2 10uF C0805 C3, 1 1uF C0805 C4, C5, 2 22p C0805 C4, C5, 2 22p C0805 C6, C7, C8, C9, 4 10uF Tantalum D C45, 1470uF CP_D12.5mm_P7.50mm CON1, 1CF-CARD TE_1734451-1 CON2, 1 SD SD_TE_2041021 CON3, 1 VGA DSUB-15-HD_Female CON4, 1 Joystick DSUB-9_Male CON4, 1 Joystick DSUB-9_Male CON5, 1 Keyboard MDIN06SS CON6, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 1 5V DC BarreJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 D1, 1 Floppy IDC-Header_2x17 IPFGA JTAG IDC-Header_2x17 IJC, 1 Floppy SV PinHeader_1x04 J4, 1 LuBus PinHeader_1x04 J4, 1 LuBus PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR UART PinHeader_1x04 J7, 1 RS, R3, R39, R31, R32, R33, R34, R35, R36, R37, R38, R39, R36,	C24, C25, C26, C27, C28, C29, C30,			
C1, C2 C3, C3, C4, C5, C8, C9, C4, C5, C7, C8, C9, C6, C7, C8, C9, C7, C8, C9, C9, C9, C9, C9, C9, C9, C9, C9, C9				
C3,				
C4, C5, C8, C9, 4 10uF	,			
C6, C7, C8, C9, C45, C45, C47, C7, C87, C9, C187, C97, C187, C187, C187, C187, C187, C287, C287, C387, C388, C			1	C0805
C45,				C0805
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 CON5, 1 Keyboard MDIN06SS CON6, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 1 SV DC BarrelJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA_JTAG IDC-Header_2x05 J3, 1 Floppy IDC-Header_2x05 J3, 1 Floppy IDC-Header_2x05 J3, 1 Floppy IDC-Header_2x04 J4, 1 UBUS PinHeader_1x04 J5, 1 AVR_JTAG IDC-Header_2x03 J6, 1 AVR_UART PinHeader_1x04 R1, R2, R3, 3 32k4 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R30 R6, R11, R14, R17, 4 1 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R39, R31, R32, R38, R39, R39, R31, R32, R38, R39, R39, R31, R32, R33, R34, R35, R36, R37, R38, R39, R39, R31, R32, R33, R34, R35, R36, R37, R38, R39, R39, R39, R31, R32, R33, R34, R35, R36, R37, R38, R39, R39, R39, R31, R32, R33, R34, R35, R36, R37, R38, R39, R39, R39, R31, R32, R33, R34, R35, R36, R37, R38, R39, R39, R39, R39, R39, R39, R39, R39	C6, C7, C8, C9,	4	10uF	Tantalum D
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 CON7, 1 Audio Jack 3.5mm_CUI_SJ1-3535NG CON8, 1 SV DC BarrelJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_2x05 J3, 1 Floppy 5V PinHeader_1x04 J4, 1 LBUS PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR JTAG IDC-Header_2x03 J7, 1 AVR JTAG IDC-Header_2x03 J8, 1 AVR JTAG IDC-Header_1x04 J8, 1 LBUS PinHeader_1x04 J9, 1 AVR JTAG IDC-Header_1x04 J1, 1 LBUS PinHeader_1x04 J2, 1 FIOPPY SV PinHeader_1x04 J3, 1 AVR JTAG IDC-Header_1x04 J4, 1 LBUS PinHeader_1x04 J5, 1 AVR JTAG IDC-Header_1x04 J6, 1 AVR JTAG IDC-Header_1x04 J7, 1 AVR JTAG IDC-Header_1x04 J8, 1 AVR JTAG IDC-Header_1x04 J9, 1 AVR JTAG IDC-Header_1x04 J9, 1 AVR JTAG IDC-Header_1x04 J1, 1 AVR JTAG IDC-Header_1x04 J2, 1 AVR JTAG IDC-Header_1x04 J1, 2 AVR JTAG IDC-Header_1x04 J1, 2 AVR JTAG IDC	C45,	1	470uF	CP_D12.5mm_P7.50mm
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 D1, 1 LED1 L0805 D1, 1 LED2 L0805 J1, 1 LED2 L0805 J1, 1 FIGOPPY IDC-Header_2x17 J2, 1 FIGOPPY IDC-Header_2x05 J3, 1 FIGOPPY SV PinHeader_1x04 J4, 1 UBus PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR UART PinHeader_1x04 R1, R2, R3, 3 2k4 R0805 R4, 1 27 R0805 R6, R1, R14, R17, 4 1k R0805 R	CON1,	1	CF-CARD	TE_1734451-1
CON4,	CON2,	1	SD	SD_TE_2041021
CON5,	CON3,	1	VGA	DSUB-15-HD_Female
CON6, CON7, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 1 SV DC BarrelJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_1x04 J3, 1 Floppy 5V PinHeader_1x04 J4, 1 UBUS PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR JTAG IDC-Header_2x03 J7, 2 R0805 R1, R2, R3, 3 2k4 R0805 R4, R1, R2, R3, R34, R35, R36, R37, R38, R39, R39, R36, R37, R38, R39, R36, R37, R38, R39, R39, R36, R37, R38, R39, R39, R36, R37, R38, R39, R39, R39, R39, R39, R39, R39, R39	CON4,	1	Joystick	DSUB-9_Male
CON6, CON7, 1 Mouse MDIN06SS CON7, 1 Audio Jack_3.5mm_CUI_SJ1-3535NG CON8, 1 SV DC BarrelJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 FPGA JTAG IDC-Header_1x04 J3, 1 Floppy 5V PinHeader_1x04 J4, 1 UBUS PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR JTAG IDC-Header_2x03 J7, 2 R0805 R1, R2, R3, 3 2k4 R0805 R4, R1, R2, R3, R34, R35, R36, R37, R38, R39, R39, R36, R37, R38, R39, R36, R37, R38, R39, R39, R36, R37, R38, R39, R39, R36, R37, R38, R39, R39, R39, R39, R39, R39, R39, R39	CON5,	1	Keyboard	MDIN06SS
CON8, 1 5V DC BarrelJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 Floppy by DiDC-Header_1x04 J3, 1 Floppy 5V PinHeader_1x04 J4, 1 UBus PinHeader_2x03 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR UART PinHeader_1x04 R1, R2, R3, 3 2k4 R0805 R4, 1 27 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R0805 R6, R11, R14, R17, 4 1k R0805 R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R19, R20, 2 75 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 R27, 2 750 R0805 R26, R27, 2 750 R0805	CON6,	1	Mouse	MDIN06SS
CON8, 1 5V DC BarrelJack_Wuerth_6941xx301002 D1, 1 LED1 L0805 D2, 1 LED2 L0805 J1, 1 Floppy IDC-Header_2x17 J2, 1 Floppy by DiDC-Header_1x04 J3, 1 Floppy 5V PinHeader_1x04 J4, 1 UBus PinHeader_2x03 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR UART PinHeader_1x04 R1, R2, R3, 3 2k4 R0805 R4, 1 27 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R0805 R6, R11, R14, R17, 4 1k R0805 R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R19, R20, 2 75 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 R27, 2 750 R0805 R26, R27, 2 750 R0805	CON7,	1	Audio	Jack 3.5mm CUI SJ1-3535NG
D1,	CON8.			
D2,	·			
J1,				
J2,				
J3, J4, J4, J5, J6, J7, J8, J8, J8, J9, J9, J9, J9, J9, J9, J9, J9, J9, J9	· · ·			
J4, 1 uBus PinHeader_2x04 J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR UART PinHeader_1x04 R1, R2, R3, 2k4 R0805 R4, 1 27 R0805 R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, 12 10k R0805 R6, R11, R14, R17, 4 1k R0805 R6, R11, R14, R17, 4 1k R0805 R10, R13, R16, 3 1k8 R0805 R10, R13, R16, 3 1k8 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-1-48_18.4x12mm_P0.5mm U3, 1 EPCS16 M				_
J5, 1 AVR JTAG IDC-Header_2x03 J6, 1 AVR UART PinHeader_1x04 R1, R2, R3, 3 2k4 R0805 R5, R9, R30, R31, R32, R33, R34, R35, 12 10k R0805 R6, R37, R38, R39, 12 10k R0805 R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 1k8 R0805 R12, R15, R18, R28, R29, 5 470 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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-40W15.24mm U7, U8, 2 TXB0104PW TSSOP-14_4.4x5mm_P0.65mm <	*			–
John Jay				
R1, R2, R3,				_
R4,				_
R5, R9, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R6, R11, R14, R17, R7, R7, R8, R21, R22, R23, R24, R10, R13, R16, R12, R15, R18, R28, R29, R26, R27, R26, R27, R27, R27, R27, R28, R29, R26, R27, R26, R27, R27, R27, R27, R28, R29, R26, R27, R26, R27, R27, R27, R27, R27, R27, R27, R27				
R36, R37, R38, R39, 12 10k R0805 R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 1k8 R0805 R12, R15, R18, R28, R29, 5 470 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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			21	10003
R6, R11, R14, R17, 4 1k R0805 R7, R8, R21, R22, R23, R24, 64k7 R0805 R10, R13, R16, 31k8 R0805 R12, R15, R18, R28, R29, 5470 R0805 R19, R20, 275 R0805 R25, 1820 R0805 R26, R27, 2750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-1-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 M88877A DIP-40_W15.24mm U7, U8, 2 TXB0104PW TSSOP-14_4.4x5mm_P0.65mm U9, 1 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		40	401	D0005
R7, R8, R21, R22, R23, R24, 6 4k7 R0805 R10, R13, R16, 3 1k8 R0805 R12, R15, R18, R28, R29, 5 470 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
R10, R13, R16, 3 1k8 R0805 R12, R15, R18, R28, R29, 5 470 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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_4.4x55mm_P0.65mm U9, 1 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				
R12, R15, R18, R28, R29, 5 470 R0805 R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
R19, R20, 2 75 R0805 R25, 1 820 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
R25, 1 820 R0805 R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
R26, R27, 2 750 R0805 SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
SW1, SW2, 2 SW_Push SPST_Angled_PTS645Vx58-2LFS U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
U1, 1 EP4CE6E22C8N QFP-144 U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
U2, 1 CY62167EV30 TSOP-I-48_18.4x12mm_P0.5mm U3, 1 EPCS16 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 U9, 1 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				
U3, 1 EPCS16 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 U9, 1 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				
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 U9, 1 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				
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 U9, 1 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	U3,		<u> </u>	
U6, 1 MB8877A DIP-40_W15.24mm U7, U8, 2 TXB0104PW TSSOP-14_4.4x5mm_P0.65mm U9, 1 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	U4,	1	EPM3128ATC100	
U7, U8, 2 TXB0104PW TSSOP-14_4.4x5mm_P0.65mm U9, 1 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	U5,	1	ATMEGA328-AU	
U9, 1 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	U6,	1	MB8877A	DIP-40_W15.24mm
U10, 1 ESP-12E ESP-12E U11, 1 TDA1543 DIP-8_W7.62mm U12, 1 AMS1117-3.3 SOT-223-3	U7, U8,	2	TXB0104PW	TSSOP-14_4.4x5mm_P0.65mm
U11, 1 TDA1543 DIP-8_W7.62mm U12, 1 AMS1117-3.3 SOT-223-3	U9,	1	DS1307Z+	SOIC-8_3.9x4.9mm_P1.27mm
U12, 1 AMS1117-3.3 SOT-223-3	U10,	1	ESP-12E	ESP-12E
U12, 1 AMS1117-3.3 SOT-223-3	U11,	1	TDA1543	DIP-8_W7.62mm
	U12,	1	AMS1117-3.3	-
,	U13,	1	AMS1117-2.5	SOT-223-3

karabas-pro-revA

U14,	1 AMS1117-1.2	SOT-223-3
U17,	1 74LS06	DIP-14_W7.62mm
U18,	1 74LS38	DIP-14_W7.62mm
X1,	1 SG-7050CAN	SG8002CA-4Pin_7.0x5.0mm
Y1,	1 32768Hz	AT310_D3.0mm_L10.0mm
Y2,	1 16MHz	HC49-S