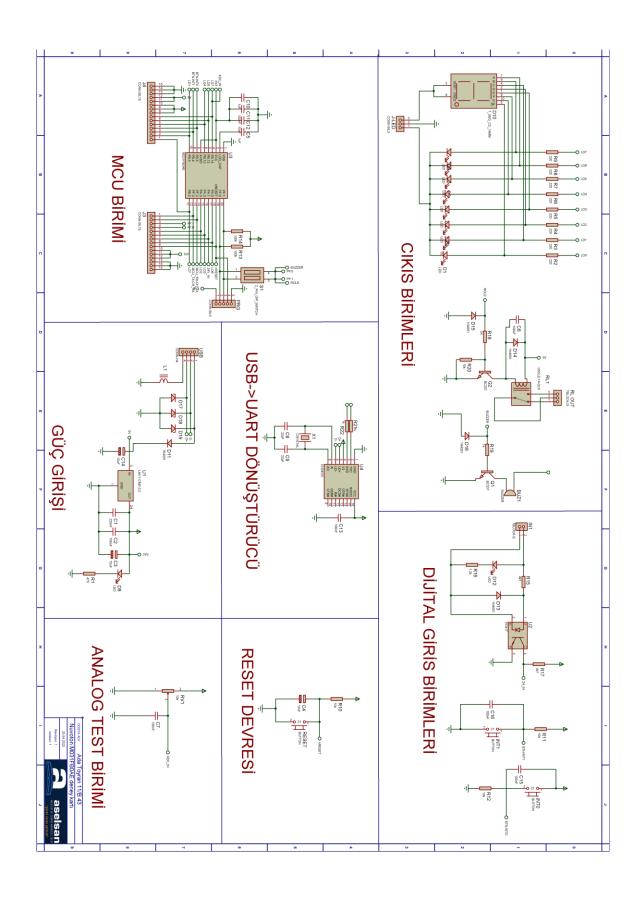


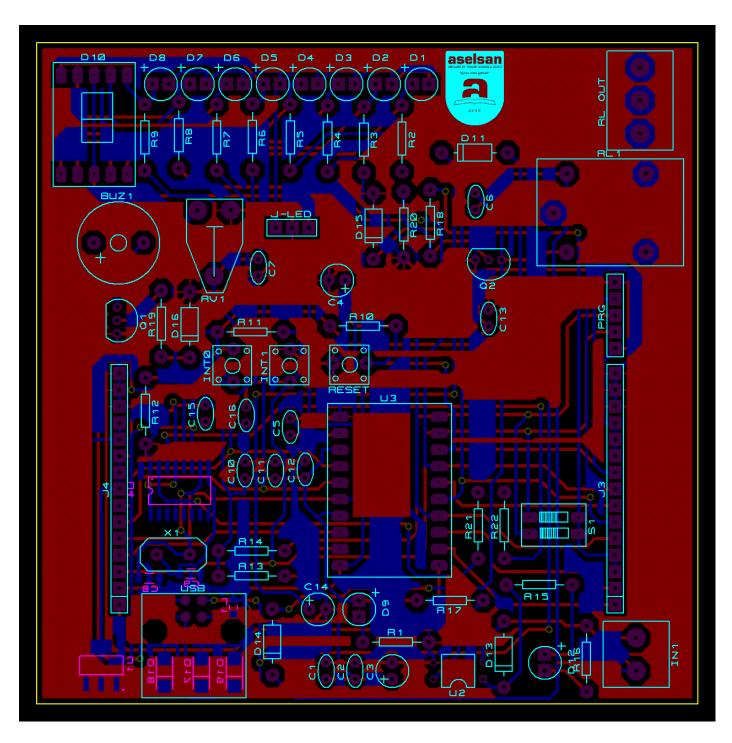
11/B - 43

Ada TOYRAN

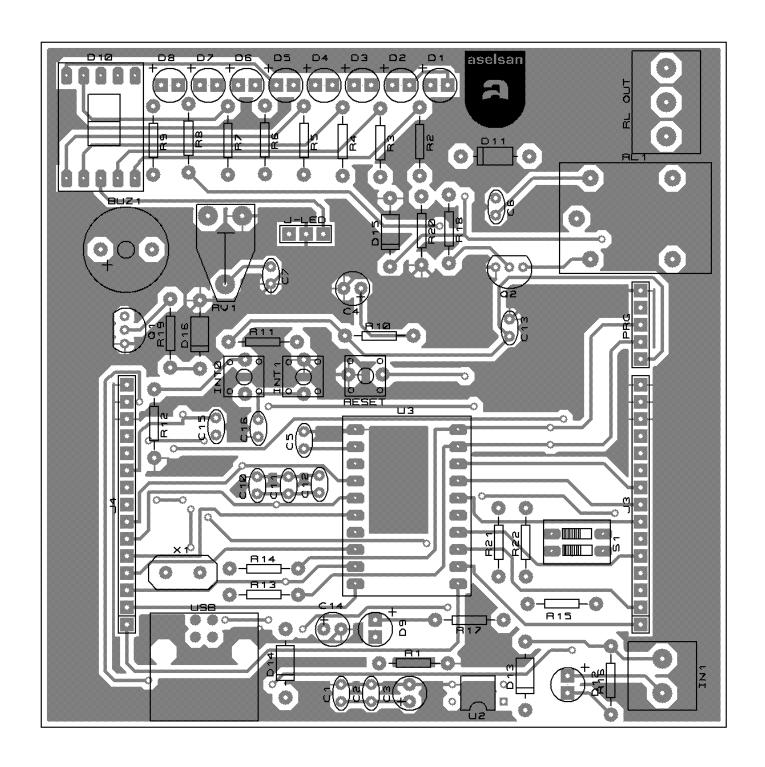
Nuvoton M031FB0AE Geliştirme kartı tanıtım dokümanıdır.

Bu belge geliştirdiğimiz kartın özelliklerini temel düzeyde gösteren bir dokümandır.

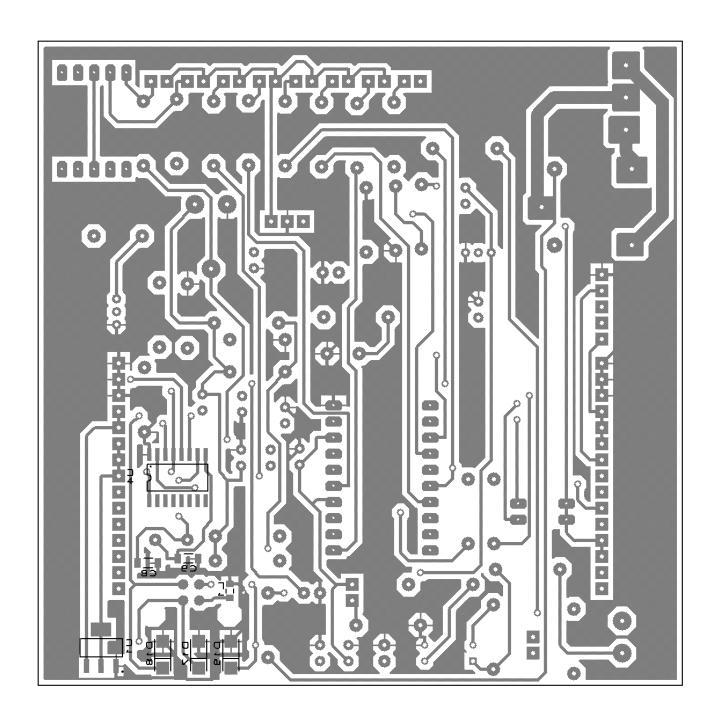




GENEL BASKI DEVRE GÖRÜNÜŞÜ



ÜST KATMAN YERLEŞİM PLANI



ALT KATMAN YERLEŞİM PLANI

Bill Of Materials for adabitti_bida

Design Title adabitti_bida

Author

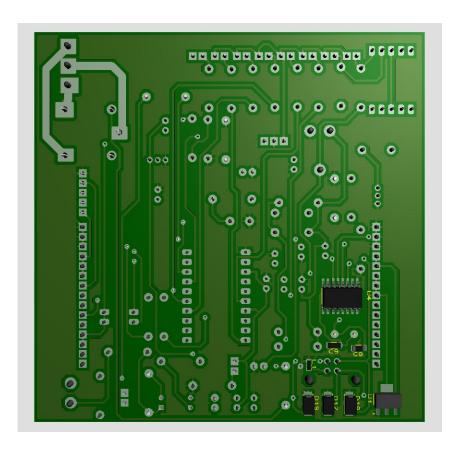
Document Number

Revision

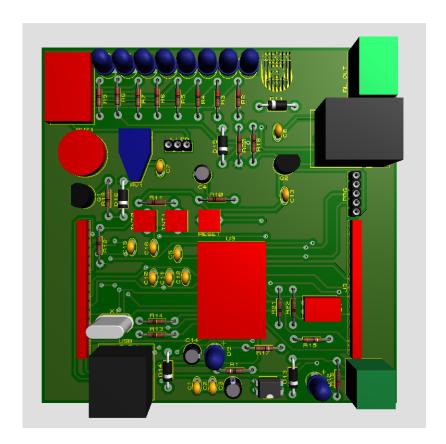
Design C reated 6 Nisan 2023 Perşembe Design Last Modified 25 Nisan 2023 Salı

Total Parts In Design 79

District Beferences Walve Stock Code Unit Cost					
Substatis Subs	0 Modules				
District District	Sub-totals:		Value	Stock Code	
1					
3	Quantity 1			Stock Code	Unit Cost
2	7	C2, C8-C7, C11, C13, C15-C16	100nF		
2	3	C3-C4, C14	10uF		
1	2	C5, C10	1uF		
Sub-totals: #0,00	2	C8-C9	22pF		
District Part Par	1	C12	10nF		
Calentity	Sub-totals:				€0,00
1 R1 470 8 R2-R9 220 4 R10-R12-R20 10k 2 R15-R17 4-7 1 R16 1.2k 1 R18 1K 3 R19-R21-R22 1k 5 Unit Cost 1 U1 U1 UM117/MP-3,3 1 U2 PCS17 1 U4 CH24-COS 2 U1-R2 BEFERENCES Value Stock Code Unit Cost 1 U4 CH24-CH25-CH4MM 5 D1, D3-D9, D12 LED 1 D2 D2 1 D1, D3-D9, D12 LED 1 D10 7_SEG_CC_14MM 5 D1, D3-D9, D16 1N4001 3 D17-D19 SUb-lotals: \$ \$0,00 Limity References Value Stock Code Unit Cost 1 D10 7_SEG_CC_14MM 5 D1, D3-D9, D12 LED 1 D2 D2 1 D1, D3-D9, D12 LED 1 D10 7_SEG_CC_14MM 5 D1, D3-D9, D16 1N4001 3 D17-D19 SUb-lotals: \$ \$0,00 Limity References Value Stock Code Unit Cost 1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 1 D2 D2 1 D1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D12 LED 1 D10 T_SEG_CC_14MM 5 D1, D3-D9, D12 LED 5 D1, D3-D9, D16 LED 5 D1, D3-D9, D16 LED 5 D1, D3-D9, D16 LED 5 D1, D3-D9, D16 L	22 Resistors	;			
4 R10-R12-R20 10k 2 R13-R14 100k 2 R15-R17 4-7 1 R16 1.2k 1 R18 1K 3 R19-R21-R22 1k Sub-totals: #0,000 4 Integrated Circuits Cuantity References Value Stock Code Unit Cost 1 U4 CH40G Sub-totals: #0,00 1 U4 CH40G Sub-totals: #0,00 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 3 D1,00-D9,D12 LED 5 D1,00-D9,D12 LED 6 D2 6 D2 7 SEG_CC_14MM 5 D11,D13-D16 1N4001 5 D11,D13-D16 1N4001 5 D11,D13-D16 1N4001 5 D11,D13-D16 1N4001 5 D11,D13-D16 1N4001 5 D11,D13-D16 1N4001 5 D11,Cost Control Buzzer 1 NM TBLOCK-12 1 NM TBLOCK-12 1 D4-ED CONN-SIL15 1 L1 1 PRG CONN-SIL15 1 R1 R1 G8CLE-14-D05 1 RV1 10k 1 RV1 10k 1 RV1 10k 1 S1 2_PN_DIP_SWITCH 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-SIL1 RESO38	Quantity 1			Stock Code	Unit Cost
2 R13-R14 100k 2 R15,R17 47 1 R16 1.2k 1 R18 1K 3 R19,R21-R22 1k Sub-lotals:	8	R2-R9	220		
2 R15,R17 4k.7 1 R16 1.2k 1 R18 1K 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1	4	R10-R12,R20	10k		
2 R15,R17 4k.7 1 R16 1.2k 1 R18 1K 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1	2	•	100k		
1 R16 1.2k 1 R18 1K 3 R19,R21-R22 1k Sub-totals:					
1 R18 1K 3 R19,R21-R22 1k 3 R19,R21-R22 1k 3 R19,R21-R22 1k 50,00 4 Integrated Circuits Cuantity References Value Stock Code Unit Cost 1 U1 LM1117MP-3,3 1 U2 PC817 1 U3 M31FB0AE 1 U4 CH34OG Sub-totals: €0,00 2 Transistors Cuantity References Value Stock Code Unit Cost 2 Transistors Cuantity References Value Stock Code Unit Cost 19 Diodes Cuantity References Value Stock Code Unit Cost 19 Di 0 D0 10 D2 BC37 10 D0 10 D0 10 D1 7,SEG_CC_14MM 5 D11,D13-D16 1N4001 3 D17-D19 Sub-totals: €0,00 16 M iscellane∪□ Cuantity References Value Stock Code Unit Cost 1 BUZ1 BUZER 1 NN1 TBLOCK-12 1 BUZ1 BUZER 1 IN1 TBLOCK-12 3 NTO-NT1, RESET BUTTON 2 J3-J4 CONN-SIL5 1 L1 1 RC1 GONN-SIL5 1 RC2 GONN-SIL5 1 RC1 GONN-SIL5 1 RC2 GONN-SIL5 1 RC3 GONN-	_	•			
Reference					
Sub-totals: 4 Integrated Circuits					
### A Integrated Circuits Claimatity References Value Stock Code Unit Cost	Sub-totals:				 €0.00
Countity References Value Stock Code Unit Cost	4 Integrated	Circuits			
1 U1 U2 PC817 1 U3 M031FB0AE 1 U4 CH94OG Sub-totals: \$0,00 2 Transistors Ualue Stock Code Unit Cost 2 Q1-Q2 BC337 Sub-totals: \$0,00 19 Diodes Quantity References Value Stock Code Unit Cost 19 Diodes Quantity References Value Stock Code Unit Cost 10 Diodes Quantity References Value Stock Code Unit Cost 10 Diodes Quantity References Value Stock Code Unit Cost 10 Diodes 11 Dio 7,SEG_CC_14MM 15 D11,D3-D9,D12 LED 1 Dio 7,SEG_CC_14MM 15 D11,D3-D18 1N4001 3 D17-D19 Sub-totals: \$0,00 16 M iscellaneous Quantity References Value Stock Code Unit Cost 1 BUZ1 BUZ2ER 1 NM TBLOCK-12 3 INTONITI, RESET BUTTON 2 J3-J4 CONN-SIL15 1 J-LED CONN-SIL15 1 L1 1 PRG CONN-SIL5 1 RL1 G6CLE-14-DC5 1 RL1 G6CLE-14-DC5 1 RL1 G6CLE-14-DC5 1 RV1 10k 1 S1 2_PN_DIP_SWITCH 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4	Quantity		Value	Stock Code	Unit Cost
1 U3 M031FB0AE 1 U4 CH34OG Sub-totals:			LM1117MP-3,3		
1 U4 CH34OG Sub-totals:	1	U2	PC817		
Sub-totals: \$0,00	1	U3	M031FB0AE		
2 Transistors	1	U4	CH34OG		
Countity	Sub-totals:				€0,00
2 Q1-Q2 BC337 Sub-totals: \$0,00 19 Diodes Cuantity References Value Stock Code Unit Cost 9 D1, D3-D9, D12 LED 1 D2 D2 1 D10 7_SEG_CC_14MM 5 D11, D13-D16 1N4001 3 D17-D19 Sub-totals: \$0,00 16 M iscellaneous Cuantity References Value Stock Code Unit Cost 10 M iscellaneous Sub-totals: \$0,00 16 M iscellaneous Cuantity References Value Stock Code Unit Cost 1 BUZ1 BUZ2ER 1 IN1 TBLOCK-I2 3 INTO-INT1, RESET BUTTON 2 J3-J4 CONN-SIL5 1 U1 PRG CONN-SIL5 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL1 G5CLE-14-DC5 1 RL1 INCUT TBLOCK-I3 1 RV1 10k 1 RV1 10k 1 RV1 10k 1 RV1 10k 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 RESO38					
Sub-totals: \$0,00 19 Diodes	•			Stoox Code	Unit Cost
19 Diodes		W1-W2	B0337		≴ 0.00
Discription Discription					20,00
9 D1, D3-D9, D12 LED 1 D2 1 D10 7_SEG_CC_14MM 5 D11, D13-D18 1N4001 3 D17-D19 Sub-totals:		References	Value	Stock Code	Unit Cost
D2				<u> </u>	OTHE COST
1 D10 7_SEG_CC_14MM 5 D11,D13-D18 1N4001 3 D17-D19 Sub-totals: \$0,00 16 M iscellaneous Cuantity References Value Stock Code Unit Cost 1 BUZ1 BUZZER 1 IN1 TBLOCK-I2 3 INTO-INT1,RESET BUTTON 2 J3-J4 CONN-SIL15 1 JLED CONN-SIL3 1 L1 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB RES038	1		D2		
5 D11,D13-D16 1N4001 3 D17-D19 Sub-totals: \$0,00 16 M iscellane∪∪∪ 10 M1 BUZ1 BUZ2ER 1 N1 BUZ1 BUZ2ER 1 N1 TBLOCK-I2 3 NTO-INT1,RESET BUTTON 2 J3-J4 CONN-SIL15 1 L1 1 PRG CONN-SIL3 1 L1 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 USB CONN-H4 1 CRYSTAL RES038	1	D10	7 SEG CC 14MM		
3 D17-D19 Sub-totals: \$0,00 16 M iscellane∪∪ Cuantity References Value Stock Code Unit Cost 1 BUZ1 BUZ2ER 1 IN1 TBLOCK-I2 3 INTO-INT1, RESET BUTTON 2 J3-J4 CONN-SIL15 1 L1 1 PRG CONN-SIL3 1 L1 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PN_DIP_SWITCH 1 USB CONN-H4 1 USB CONN-H4 1 X1 CRYSTAL RES038	5	D11,D13-D16			
Maintity References Value Stock Code Unit Cost	3				
References Value Stock Code Unit Cost	Sub-totals:				€0,00
1 BUZ1 BUZ2ER 1 IN1 TBLOCK-I2 3 INTO-INT1, RESET BUTTON 2 J3-J4 CONN-SIL15 1 J-LED CONN-SIL3 1 L1 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PiN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	16 Miscellan	eous			
1 IN1 TBLOCK-I2 3 INT0-INT1, RESET BUTTON 2 J3-J4 CONN-SIL15 1 J-LED CONN-SIL3 1 L1 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	Quantity	References	Value	Stock Code	Unit Cost
3 INTO-INT1, RESET BUTTON 2 J3-J4 CONN-SIL15 1 J-LED CONN-SIL3 1 L1 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	BUZ1	BUZZER		
2 J3-J4 CONN-SIL15 1 JLED CONN-SIL3 1 L1 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	IN1	TBLOCK-I2		
1 JLED CONN-SIL3 1 L1 1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	3	INT0-INT1, RESET	BUTTON		
1 L1 1 PRG CONN+SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	2	J3-J4	CONN-SIL15		
1 PRG CONN-SIL5 1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	J-LED	CONN-SIL3		
1 RL1 G5CLE-14-DC5 1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	L1			
1 RL OUT TBLOCK-I3 1 RV1 10k 1 S1 2_PiN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	PRG	CONN-SIL5		
1 RV1 10k 1 S1 2_PIN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	RL1	G5CLE-14-DC5		
1 S1 2_PiN_DIP_SWITCH 1 USB CONN-H4 1 X1 CRYSTAL RES038	1	RL OUT	TBLOCK-I3		
1 USB CONN-H4 1 X1 CRYSTAL RES038	1	RV1	10k		
1 USB CONN-H4 1 X1 CRYSTAL RES038	1	S1	2_PiN_DIP_SWITCH		
	1	USB			
Sub-totals: €0,00	1	X1	CRYSTAL	RES038	
	Sub-totals:				€ 0,00



ALT KATMAN 3D GÖRÜNTÜ



ÜST KATMAN 3D GÖRÜNTÜ