

Quan	Description
1	DIODE, 1N4001
1	CAPACITOR, 10 μ F
3	RESISTOR, 1k Ω
1	VOLTAGE_REGULATOR, LM7805CT
1	LED_green
1	VOLTAGE_REGULATOR, LM317H
2	LED_blue
1	POTENTIOMETER, 470 Ω
1	TIMER, LM555CM
1	CMOS_5V, 4020BT_5V
2	RESISTOR, 380 Ω
3	RESISTOR, 240 Ω
1	CAPACITOR, 0.01 μ F
3	CAPACITOR, 0.1 μ F
1	RESISTOR, 100 Ω
1	MSP430G2553, MSP430
6	CMOS_5V, 4543BD_5V
8	HEADERS_TEST, TEST_PT_THT
1	RESISTOR, 47k Ω
1	BUZZER, BUZZER 200Hz
2	CAPACITOR, 100nF
1	74HC238N
3	HEADERS_TEST, HDR1X2
1	LCD, LCD_6D
2	CAPACITOR, 1 μ F
1	SCHEMATIC_SYMBOLS, PUSH_BUTTON_DPST

Reference Designator	Package
D1	IPC-2221A/2222\DO-35
C1	Generic\CAP1
R1, R7, R9	Generic\RES1206
U1	Generic\TO-220
5V	Ultiboard\LED9R2_5Vg
U2	Generic\TO-220
LED3, MSPVin	Ultiboard\LED9R2_5Vb
Pot1	Ultiboard\POT0
U3	IPC-7351\M08A
U4	IPC-7351\SO-16
R2, R8	Generic\RES1206
R3, R4, R10	Generic\RES1206
C2	Generic\CAP1
C3, C5, C6	Generic\CAP1
R6	Generic\RES1206
U5	Analog Devices\PDIP-20(N-20)
U7, U8, U9, U10, U11, U12	IPC-7351\SO-16
1H1, 5VTEST, 64H1, MSPGND1, MSPVinTEST1, RST1, TEST1, Timer	Generic\TEST_PT_THT
R11	Generic\RES1206
LS1	Generic\BUZZER
C7, C8	Generic\CAP1
U6	IPC-7351\DO16
J1, J2, J3	Generic\HDR1X2
U13	Ultiboard\LCD6DIGIT
C4, C9	Generic\CAP1
RST	Ultiboard\DIGTAS1

Supplier	Order Code	Part Number	Cost/Unit	Cost
https://ie.farnell.com/	2675791	1N4001+	€ 0.06	€ 0.06
https://ie.farnell.com/	1831310	400BXC10MEFC10X20	€ 1.30	€ 1.30
https://ie.farnell.com/	1739012	CRCW12061K00FKEAHP	€ 0.11	€ 0.33
https://ie.farnell.com/	1102157	LM7805CT	€ 0.79	€ 0.79
https://ie.farnell.com/	1003199	HLMP-1503	€ 0.24	€ 0.24
https://ie.farnell.com/	1469086	LM317HVT/NOPB	€ 2.06	€ 2.06
https://ie.farnell.com/	1003308	HLMP-KB45-A0000	€ 0.64	€ 1.28
https://ie.farnell.com/	1227535	CB10LV471M	€ 0.80	€ 0.80
https://ie.farnell.com/	2454496	LM555CM	€ 1	€ 1
https://ie.farnell.com/	2444951	74HC4020D	€ 0.51	€ 0.51
https://ie.farnell.com/	2307668	ERJ8ENF3830V	€ 0.59	€ 1.18
https://ie.farnell.com/	1653096	CRCW1206240RFKEA	€ 0.40	€ 1.20
https://ie.farnell.com/	9519955	FSC 160V 10PF+/-1PF	€ 2.19	€ 2.19
https://ie.farnell.com/	1413944	KP1830110631	€ 2.45	€ 7.35
https://ie.farnell.com/	2123763	CRCW1206100RFKEA	€ 0.39	€ 0.39
https://ie.farnell.com/		20-PDIP		
https://ie.farnell.com/	2766169	PST 1,0/10-3,5	€ 0.64	€ 5.12
https://ie.farnell.com/	1470016	CRCW120647K0FKEA	€ 0.35	€ 0.35
https://ie.farnell.com/	1413944	KP1830110631	€ 2.45	€ 4.90
https://ie.farnell.com/	2444984	74HC238D	€ 0.45	€ 0.45
https://ie.farnell.com/	3417645	825433-2	€ 0.34	€ 1.02
https://ie.farnell.com/		DIP50		
https://ie.farnell.com/	8813167	UPS2W010MPD	€ 0.60	€ 1.20
https://ie.farnell.com/	2435161	PTS645SL43-2-LFS	€ 0.13	€ 0.13
TOTAL				€ 33.85