

Complete Parts List for building the Analog Style LED Clock

Sources:

- LED Clock Kit (www.LEDClockKit.com)
- DigiKey Electronics (www.digikey.com)
- Jameco Electronics (www.jameco.com)

Qty	Ref Des	Source	Source Part #	Description:
1		Jameco	100061	AC/AC Wall Transformer, 9 VAC
1	J1	Jameco	2114600	Cable Assembly, 2.1mm x 5.5mm
1	BZ1	Digikey	668-1465-ND	Transducer, 2.048 kHz
1	C1	Digikey	493-14503-ND	Electrolytic Capacitor, 100 uF
1	C2	Digikey	493-5954-ND	Electrolytic Capacitor, 1 uF
1	C3	Digikey	478-4852-ND	Ceramic Capacitor, 0.01 uF
10	D1-10	Digikey	1N4001-TPMSCT-ND	Diode, 1N4001
12	DHxx	Digikey	160-1687-ND	LED, Yellow, 5mm
49	DHxx, DA0x	Digikey	160-1664-ND	LED, Yellow, 3mm
12	DMxx	Digikey	160-1947-ND	LED, Green, 5mm
48	DMxx	Digikey	160-1659-ND	LED, Green, 3mm
12	DSxx	Digikey	160-1682-ND	LED, Red, 5mm
49	DSxx, DA0x	Digikey	160-1661-ND	LED, Red, 3mm
16	R1-16	Digikey	10KQBK-ND	Carbon Film Resistor, 75 Ohms
4	R17-20	Digikey	75QBK-ND	Carbon Film Resistor, 10k Ohms
4	S1-4	Digikey	450-1650-ND	Pushbuttons
1	U1	Digikey	497-16173-1-ND	Voltage Regulator, TO-92, +5V
1	U2 Socket	Digikey	ED3047-5-ND	IC DIP Socket
1	U2	Digikey	PIC16F628A-I/P-ND	8-bit Microcontroller (program yourself)
1	U2	LED Clock Kit	ASLC-U2	Programmed and tested microcontroller
1		LED Clock Kit	ASLC-PCB	Bare PCB
1		LED Clock Kit	ASLC-FRAME	Frame (includes Arabic & Roman numeral sets and mounting hardware)

Notes:

- U2 would either be ordered from LED Clock Kit or from Digikey Electronics, not both. If you have a programmer, then you can buy a blank microcontroller from Digikey and program it yourself using the software files available at LED Clock Kit. If you don't have a programmer, you would want to obtain a programmed and tested U2 from the LED Clock Kit website.
- The AC/AC wall transformer listed is for use in the United States. If you live in another country, you would need to obtain the appropriate adaptor to convert it for use on your electrical system, or you could obtain an AC/AC adaptor designed for your country's electrical system. You will need to make sure the output is between 9 and 12 volts AC (don't get one with a DC voltage output, it won't work). The clock is designed to work on either a 50 or 60 Hz electrical system.
- The frame is optional. You could mount the clock to a piece of wood or other material using the mounting holes. Or you could make your own frame. Mold one with clay, print one on a 3D printer, carve it out of wood, the options are endless.
- If you don't want to source your own parts, you can buy the complete kit at the LED Clock Kit website. Order part number ASLC-KIT.