

Part	Quantity	IDs	Type (In Kit)
LED	18	LED1–LED18	QL202GD
BC54x NPN Bipolar Transistor	1	Q2	BC546
BC55x PNP Bipolar Transistor	1	Q3	BC556
TP2540 P–Type FET	1	Q1	TP2540N3
10pF Ceramic Capacitor	1	C1	10pF
10nF MKT Capacitor	8	C5–C8, C11–C14	10nF
100nF MKT Capacitor	1	C3	100nF
100nF Ceramic Capacitor	1	C4	100nF
22uF Electrolytic Capacitor	2	C2, C10	22uF
47uF Electrolytic Capacitor	1	C9	47uF
4517 Shift Register IC	1	IC4	4517
4071 Quad OR Gate IC	1	IC7	4071
4081 Quad AND Gate IC	1	IC8	4081
4504 Hex Level Shifting Buffer IC	3	IC13–IC15	4504
74HCT573 Octal 3–State Latch	2	IC10, IC11	74HCT573
4521 24bit Counter IC	1	IC1	4521
ICM7555 CMOS Timer IC	1	IC2	ICM7555
4013 Dual Flip Flop IC	2	IC3, IC9	4013
4520 Dual 4bit Counter IC	1	IC5	4520
40106/4584 Hex Schmitt Inverter IC	1	IC6	40106/4584
74HC74 Dual Flip Flop IC	1	IC12	74HC74
16 Pin DIP IC Socket	3		
8x DIP Switch	3	SW1, SW2	RKZC
SPDT Slide Switch	1	SW4	E–Switch EG1218
DPDT Slide Switch	6	SW3, SW5–SW9	E–Switch EG2201A
Tactile Switch	3	B1–B3	Hong Zheng TS–12–TSP
Tactile Switch Caps	3		
100K Log. Potentiometer	1	VR1	ALPS RK11K114–100KA
BAT86 Schottkey Diode	42	D1a/b, D2a/b – D40	BAT86
1N4148 Silicon Diode	1	D41	1N4148
8K2 Resistor	2	R1, R2	8K2
16K Resistor	27	Rxx, R3, R4a/b, R6, R14, R15, R17, R18, R20, R22, R23, R29	
10K Resistor	3	Rxx, R10	10K
150K Resistor	3	R5, R21, R24	150K

1M Resistor	4	R16, R19, R26, R27	1M
2K2 Resistor	2	R11, R12	2K2
3K3 Resistor	8	Rxx	3K3
390R Resistor	10	Rxx, R7, R25	383R
1Mx8 SIL Resistor Module	2		4609X-101-105LF
10Kx7 SIL Resistor Module	2		RGLD7X103J
Potentiometer Knob	1		
2 Pin Pin Header	1	POWER	
20 Pin IDC Connector	1		
20 Pin Pin Header	1		
Ribbon Cable 20way x0.5m	1		
DB25 PCB Mount Socket	1 (optional)		
Conductive Foam (for packaging)	1		95x45mm
Circuit Board	1		100x150mm

Modifications

2 Pin Pin Header	3	J1, J2, J3	
Pin Jumper	3		
200(180)R Resistor	1	R19b	
Ribbon Cable 20way x0.5m	1		
20 Pin IDC Connector	1		