Comment	Description	Designator	Footprint	LibRef	Quantity
LCD 16x2		AFF1	LCRU01602DSFAWH	LCD 16x2	1
Cap Semi	Capacitor (Semiconductor SIM Model)	C1, C2, C6	C1206	Cap Semi	3
Cap Pol1	Polarized Capacitor (Radial)	C4, C5	RB7.6-15	Cap Pol1	2
Diode	Default Diode	D1, D2, D3, D4	SMC	Diode	4
LED0	Typical INFRARED GaAs LED	D7	LED-0	LED0	1
Diode 1N4001	1 Amp General Purpose Rectifier	D8	DO-41	Diode 1N4001	1
PWR2.5	Low Voltage Power Supply Connector	J1	KLD-0202	PWR2.5	1
Header 2	Header, 2-Pin	P1	HDR1X2	Header 2	1
2N3904	NPN General Purpose Amplifier	Q1, Q3	TO-92A	2N3904	2
2N3906	PNP General Purpose Amplifier	Q2, Q4	TO-92A	2N3906	2
Res2	Resistor	R1, R2, R3, Re4	AXIAL-0.4	Res2	4
Res Semi	Semiconductor Resistor	R4	AXIAL-0.5	Res Semi	1
Res1	Resistor	R7	AXIAL-0.3	Res1	1
Res Tap	Tapped Resistor	Rv1, RV2	VR3	Res Tap	2
ILD74	Optocoupler, Phototransistor Output, Dual Channel, TTL Compatible, Pb-free	U1, U2, U3, U4	DIP8	ILD74	4
PIC16F876A-E/SO	Enhanced FLASH Microcontroller, 8K (x14-Bit words) FLASH, 368 Bytes RAM, 28-Pin SOIC, Standard VDD Range, Extended Temperature	U5	SOIC-SO28_N	PIC16F876A-E/SO	1
L7805ABD2T	Precision 1A Regulator	VR1	TO-263	L7805ABD2T	1
XTAL	Crystal Oscillator	X1	R38	XTAL	1