

## TEC-1F-3 Parts List

Designator	Quantity	Description	Supplier, supplier stock code,notes
R1, R2, R7, R8, R9, R10, R11, R13	8	Resistor 1k Ohms 5% ¼ Watt	
R3, R4, R22	3	Resistor 2k2 Ohms 5% ¼ Watt	
R5	1	Resistor 330 Ohms 5% ¼ Watt	
R6	1	Resistor 100 Ohms 5% ¼ Watt	
R12	1	Resistor 47k Ohms 5% ¼ Watt	
R14, R15, R16, R17, R18, R23, R24	7	Resistor 10k Ohms 5% ¼ Watt	
R19	1	Resistor 560 Ohms 5% ¼ Watt	
R20	1	Resistor 10M Ohms 5% ¼ Watt	
R21	1	Resistor 4k7 Ohms 5% ¼ Watt	10k can be substituted.
TRIMPOT	1	20K VTP Cermet Trimpot	Rockby, 15182, 20k VTP Trimpot
C1		1000uF 25 VW Electrolytic Capacitor	
C2, C3, C4, C5, C7, C11	6	100nF 50V Monolithic Ceramic Capacitor	
C6	1	1uF 16VW Electrolytic Capacitor	
C8	1	4.7uF 16VW Electrolytic Capacitor	
C9, C10	2	33pF Ceramic Capacitor	
C12	1	100pF Ceramic Capacitor	
D1, D6	2	5mm Red LED	
D2, D3, D4, D5	4	1N4002 Diode	
D7, D8	2	1N4148 Small Signal Diode	
DIS1, DIS2, DIS3, DIS4, DIS5, DIS6	6	FND560 7 Segment RED LED Display or Equivalent.	
IC1, IC2	2	74HC374	Rockby, 12186, CD74HC374E
IC5	1	74HC373	
IC3	1	AT28C64B-15PU ATMEL EEPROM 64K 8K x 8 150 ns 4.5V-5.5V	Mouser, 556-AT28C64B15PU
IC4	1	MM74C923N	
IC6	1	AS6C6264-55PCN ALLIANCE 2.7-5.5V 55ns 8k x 8 SRAM DIP28	Mouser, 913-AS6C6264-55PCN
IC8, IC11	2	74HC138	
IC9	1	ZILOG CMOS Z80 10MHz CPU Z84C001OPEG	Mouser, 692-Z84C001OPEG
IC10	1	4049U CMOS Unbuffered Hex Inverter 16 Pin DIP	Rockby, 32721, HD14049UBP
Q1, Q2, Q3, Q4, Q5, Q6, Q7	7	BC547 NPN Transistor TO-92	
Q8	1	LM7805CT Fixed 5V Voltage Regulator 1A TO-220	
	1	M3x10mm Philips, Pan Head Machine Screw	
	1	M3 Hex Nut	
	1	M3 Split Washer	
XTAL1	1	4.00 MHz Crystal 30PPM HC49/S (low profile)	Benny International (Ebay)
SK1	1	20mm Mini Speaker	
PUSH BUTTON	22	12 x 12 Tactile Switch + CAPS	
J1	1	2 Way Terminal Block 0.2" Pitch	
J2	1	6 Way R/A 0.1" Header Strip	
J3, J4, J5, J6, J7	5	3 Way Straight 0.1" Header Strip	
J3, J4, J5, J6, J7	5	Shunts	
SW1, SW2	2	SPDT Slide Switch C&K Components 1101-M2...	Benny International (Ebay)
IC9	1	40 Pin dual wipe IC socket	
IC3, IC6	2	28 Pin dual wipe IC socket	
IC1,IC2,IC4,IC5	4	20 Pin dual wipe IC socket	
IC8,IC10,IC11	3	16 Pin dual wipe IC socket	
Expansion Headers	32 way	0.1" Breakable Pin Header	
Expansion Port	28 way	0.1" Breakable Pin Header	
PCB	1	TEC-1F Double-Sided PTH Printed Circuit Board	