

Ref Des	Description	Digi-Key Part #
S1	Vishay TSOP34838 IR Receiver Module	---
U1	TinyIR2 chip (PIC16LF87-I/P)	---
U2	5V Linear Regulator, TO-92	LM78L05ACZNS
D1-D6	1N4148 switching diode	1N4148FS
D7	LED, 5mm Hi Eff Red (LTL-307E)	160-1705 or equiv
R1	100 ohm 1/4 W resistor	100QBK
R2	240 ohm 1/4 W resistor	240QBK
R3	0 ohm shorting jumper	0.0QBK
R4	10K ohm 1/4 W resistor	10KQBK
C1,C3,C4	0.1 uF ceramic cap, 0.1" lead spacing	399-2127, BC1148CT
C2	4.7 uF 50V electrolytic capacitor	P5177
PB1	Learn PB switch	SW400
J1	20-pin dual row header	P/O S2011E-36 or equiv
Female IDC connector for J1:		ASC20H

Notes: If U2 voltage regulator is not installed, install a wire jumper between pcb eyelets for pins 1 and 3 of U2 and feed in 3-5VDC at +VIN.