

JE610 ASCII KEYBOARD ENCODER

DESCRIPTION: THE JE610 ASCII ENCODED KEYBOARD KIT CAN BE INTERFACED INTO MOST ANY COMPUTER SYSTEM. THE KEYBOARD ASSEMBLY REQUIRES +5V @ 150MA AND -12V @ 10MA FOR OPERATION. INTERFACE WIRING CAN BE MADE WITH EITHER A 16 PIN DIP JUMPER PLUG OR AN 18 PIN (.156 SPACING) EDGE CONNECTOR.



FEATURES:

- 60 KEYS GENERATE THE FULL 128 CHARACTERS, UPPER AND LOWER CASE ASCII SET
- 2 USER DEFINE KEYS PROVIDED FOR CUSTOM APPLICATIONS
- OUTPUTS DIRECTLY COMPATIBLE WITH TTL/DTL OR MOS LOGIC ARRAYS
- UTILIZES A 2376 (40 PIN) ENCODER MEMORY CHIP
- FULLY BUFFERED
- CAPS LOCK FOR UPPER CASE ONLY ALPHA CHARACTERS

PARTS LIST:

REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
IC1	556 DUAL TIMER	1	KB1	KEYBOARD, 62 KEYS, HI-TEK	1
IC2	74LS02 QUAD GATE	1	R1-3	RESISTOR, 560 OHMS, 1/4W	3
IC3	74LS00 QUAD GATE	1	R4,6,13-23	RESISTOR, 2.2K, 1/4W	13
IC4	7425 DUAL GATE	1	R5	RESISTOR, 150K, 1/4W	1
IC5	AY-5-2376 ENCODER OR EQ	1	R7,8,11	RESISTOR, 27K, 1/4W	3
IC6,7	74LS05 HEX BUFFER	2	R9	RESISTOR, 100K, 1/4W	1
C1	CAPACITOR, ELEC, 1MF, 25V	1	R10	RESISTOR, 270K, 1/4W	1
C2,5,7,8,10,11,13-16	CAPACITOR, DISC, .1MF, 50V	10	R12	RESISTOR, 10K, 1/4W	1
C3,4,6	CAPACITOR, DISC, .01MF, 50V	3	J1	CONNECTOR, 16 PIN, ST STD	1
C9	CAPACITOR, DISC, 100PF, 50V or EQ	1	JW1	CONDUCTOR, INSULATED 26AWG	5"
C12	CAPACITOR, ELEC, 47MF, 16V	1		SOCKET, 14 PIN, ST STD OR EQ	6
CR1,2	DIODE IN4148 OR EQ	2		SOCKET, 40 PIN, ST STD OR EQ	1
				PRINTED WIRING BOARD JE610	1
				JE610 KIT INSTRUCTIONS	2 SHTS

ASSEMBLY PREPARATION AND PROCEDURES:

1. IMPORTANT: IDENTIFY ALL PARTS ON PARTS LIST BEFORE PROCEEDING.
2. SUGGESTION: SIMULATE PRINTED WIRING BOARD ASSEMBLY BY PLACING THE COMPONENTS IN THEIR ACTUAL PLACE ON THE PICTURE ASSEMBLY. TRANSFER COMPONENTS TO THE BOARD DURING ASSEMBLY.
3. TOOLS REQUIRED:
 - SMALL SOLDERING IRON OR GUN (27W TO 35W).
 - RESIN CORE SOLDER .03 DIA. (DO NOT USE ACID CORE TYPE).
 - SMALL LONG NOSE PLIER.
 - SMALL WIRE CUTTER.
 - SMALL SPONGE FOR CLEANING SOLDER TIP.
4. SOLDERING TIPS:
 - FEED SOLDER TO THE CRACK BETWEEN THE PAD AND THE IRON TIP.
 - LEAVING THE IRON TIP TOO LONG ON A PAD WILL LIFT THE PAD. ALLOW APPROXIMATELY 2 SECONDS PER SOLDER JOINT.
 - USING TOO MUCH SOLDER WILL CAUSE THE SOLDER TO BRIDGE ACROSS TRACES.
 - KEEP IRON TIP CLEAN BY WIPING THE TIP ACROSS A WATER-DAMPENED SPONGE.