![Chipsmall logo]

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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
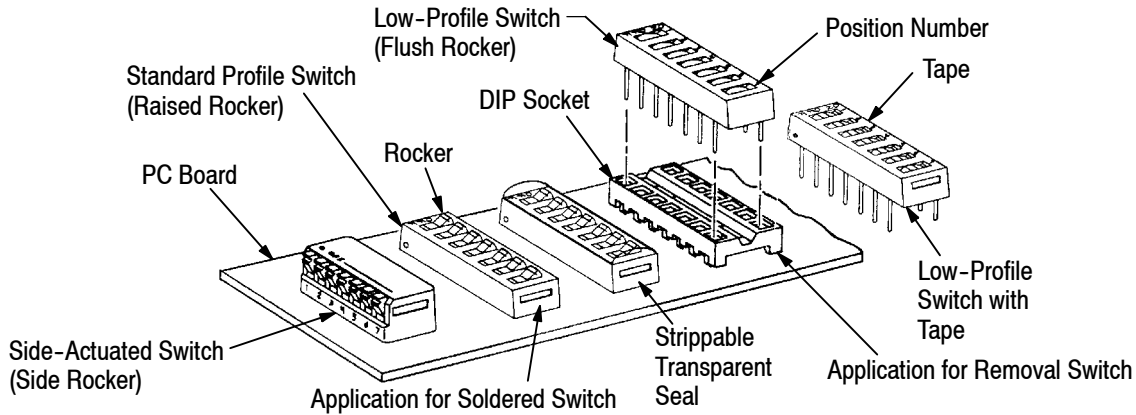

Contact us

1. INTRODUCTION

This Instruction Sheet covers the installation of the 7000 and 7100 Series DIP Programming Switches shown in Figures 1 and 2. Read this document before performing any application using these products.

NOTE *All dimensions are in metric units [with inches in brackets]. Figures and illustrations are for reference only, and are not drawn to scale.*

Reason for revision may be found in Section 5, REVISION SUMMARY.

SINGLE POLE SINGLE THROW (SPST)						
SERIES AND COLOR	**NUMBER OF POSITIONS**	**RAISED ROCKER (STANDARD-PROFILE)**		**SIDE ROCKER (SIDE-ACTUATED)**		**FLUSH ROCKER (LOW-PROFILE)**	
		Unsealed	**Econ. Seal**	**Unsealed**	**Econ. Seal**	**Unsealed**	**Econ. Seal**
7000 Black (Refer to Product Spec 108-7519)	2	2-435166-9	---	1-435802-0	---	---	3-435626-6
	3	3-435166-0	---	435802-2	---	---	3-435626-7
	4	435166-2	4-435166-9	435802-3	1-435802-5	435626-1	3-435626-8
	5	435166-3	5-435166-0	435802-4	1-435802-6	435626-2	3-435626-9
	6	435166-4	5-435166-1	435802-5	1-435802-7	---	4-435626-0
	7	435166-1	5-435166-2	435802-6	1-435802-8	---	4-435626-1
	8	435166-5	5-435166-3	435802-1	435802-9	435626-5	4-435626-2
	9	435166-6	5-435166-4	435802-7	1-435802-9	---	4-435626-3
	10	435166-7	5-435166-5	435802-8	2-435802-0	---	4-435626-4
	11	---	---	---	2-435802-1	---	---
	12	3-435166-2	5-435166-7	1-435802-2	2-435802-2	---	4-435626-6
7100 Blue (Refer to Product Spec 108-7532)	2	2-435640-9	---	---	---	435668-1	2-435668-6
	3	3-435640-0	---	---	---	435668-2	3-435668-3
	4	435640-2	3-435640-5	---	---	435668-3	3-435668-4
	5	435640-3	3-435640-6	---	---	435668-4	3-435668-5
	6	435640-4	3-435640-7	---	---	435668-5	2-435668-5
	7	435640-1	3-435640-8	---	---	435668-6	2-435668-7
	8	435640-5	3-435640-9	---	---	435668-7	2-435668-8
	9	435640-6	4-435640-0	---	---	---	2-435668-9
	10	435640-7	4-435640-1	---	---	435668-9	3-435668-0
	11	---	---	---	---	---	3-435668-1
	12	3-435640-2	4-435640-3	---	---	1-435668-1	3-435668-2

NOTE: Contact TE Connectivity for RoHS compliant part numbers which may be associated with this document.

Figure 1

TOOLING ASSISTANCE CENTER 1-800-722-1111
PRODUCT INFORMATION 1-800-522-6752

This controlled document is subject to change. For latest revision and Regional Customer Service, visit our website at **www.te.com**

2. INTRODUCTION

The SPST and MPMT switches are available in 2 through 12 positions. They can be used in DIP sockets with in-row contact centerline spacing of 25.4 [.100] and row-to-row contact centerline spacing of 7.62 [.300], or they can be soldered directly to the printed circuit (pc) board.

There are standard-profile, side-actuated, and low-profile SPST switches. The standard-profile switches have raised rockers, and are available unsealed, or sealed with an economy or premium masking material. The side-actuated switches have rockers on the side rather than on the top, and are available unsealed, or sealed with an economy or premium masking material. The low-profile switches have flush rockers, and are available unsealed, or sealed with an economy clear tape, or sealed with a premium masking material.

There are standard-profile and side-actuated MPMT switches. The standard-profile MPMT comes in both Single-Pole Double-Throw (SPDT) and Double-Pole Double-Throw (DPDT) make-before-break switches and are available with a low-profile and extended lever actuator. The side-actuated MPMT is available in SPST only at this time. All of these switches are available in the unsealed version only.

The unsealed switches are designed for socket applications and the sealed are designed for soldering applications directly to the pc board. The sealants prevent flux and other contaminants from entering the switch during soldering and cleaning.

3. SWITCH INSTALLATION

Determine the number of switch positions required for your application. Determine whether the switch will be soldered directly to the pc board (a sealed switch will be required), or whether the switch is to be installed in a socket (an unsealed switch can be used). Refer to the tables in Figures 1 or 2 for assistance in selecting a switch.

3.1. DIP Socket Installation

1. Secure DIP socket to pc board according to instructions packaged with socket.

2. Start one row of contact leads into one row of contact cavities in socket, then rotate switch until it is parallel with socket.

3. Gripping ends of switch, push switch into socket until it is bottomed

4. Determine which of the circuits are to be closed, then depress the applicable rockers to the ON position.

5. If installing a protective dust cover, determine the number of switch positions and refer to Customer Drawing 435238 to select the applicable cover. Check to be sure there are no obstructions on the switch rockers or in the protective cover, then slide the cover over the rockers until the cover latches engage the housing. See Figure 3.

MULTIPLE THROW MULTIPLE THROW SWITCHES (MPMT)					
SERIES AND COLOR	NUMBER OF SWITCHES	DOUBLE POLE SINGLE THROW		SINGLE POLE DOUBLE THROW	
		Low Profile Actuator	Extended Actuator	Low Profile Actuator	Extended Actuator
7000 Black (Refer to Product Spec 108-7519)	1	435469-9	2-435469-1	435470-7	2-435470-1
	2	---	2-435469-2	435470-1	2-435470-2
	3	435469-2	2-435469-3	435470-2	---
	4	435469-3	2-435469-4	435470-3	2-435470-4
	5	---	2-435469-5	435470-4	2-435470-5
	6	1-435469-0	2-435469-6	435470-8	2-435470-6

SERIES AND COLOR	NUMBER OF SWITCHES	FOUR POLE SINGLE THROW		DOUBLE POLE DOUBLE THROW	
		Low Profile Actuator	Extended Actuator	Low Profile Actuator	Extended Actuator
7000 Black (Refer to Product Spec 108-7519)	1	435469-7	3-435469-1	435470-5	3-435470-1
	2	---	3-435469-2	435470-9	3-435470-2
	3	---	---	---	3-435470-3

Figure 2

Protective Cover
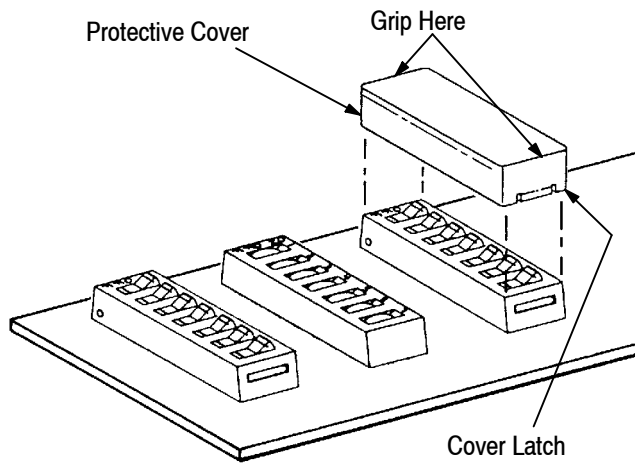
Grip Here

Cover Latch

Figure 3

3.2. PC Board Installation

1. Make a layout on the pc board according to the dimensions shown in Figure 4.

2. Make certain all contact leads have started entry into holes. Grip sides of switch and push switch into pc board until it is bottomed.

3. Hold switch at a slight angle and start one row on contact leads into pc board holes. Do NOT over–insert. Switch should be rotated until second row of contact leads are aligned with opposite row of contact holes.

Use Light Pressure to Insert Switch

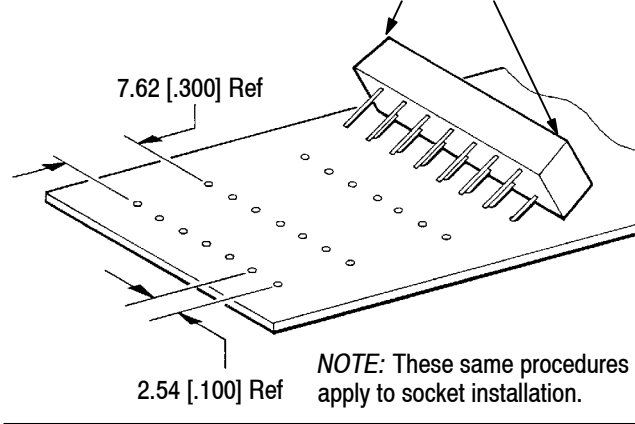Rotate to Align Second Row - Then Push Down on Ends of Switch

7.62 [.300] Ref

2.54 [.100] Ref

NOTE: These same procedures apply to socket installation.

Figure 4

NOTE *To hold switch in place during wave soldering, the four outside contact leads may be clinched inward at 45°. Refer to Figure 5.*

Housing Bottomed on PC Board

PC Board

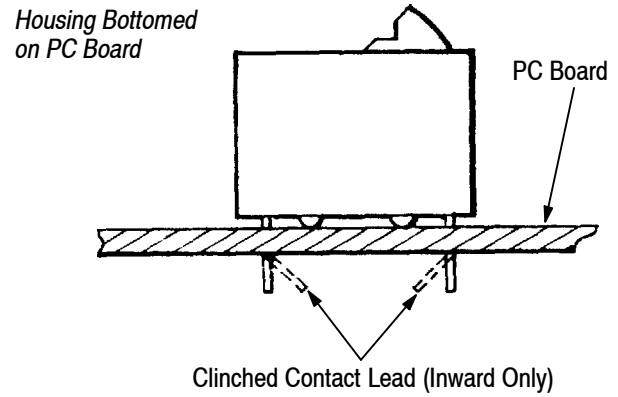Clinched Contact Lead (Inward Only)

Figure 5

NOTE *For pc board soldering and cleaning procedures, and recommended solvents, refer to Application Specification 114-1056.*

4. SWITCH PROGRAMMING

After the switch has been inserted into the DIP socket or soldered onto the pc board, proceed as follows:
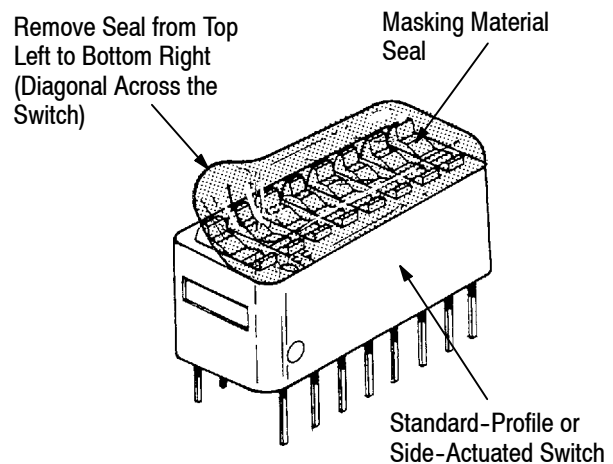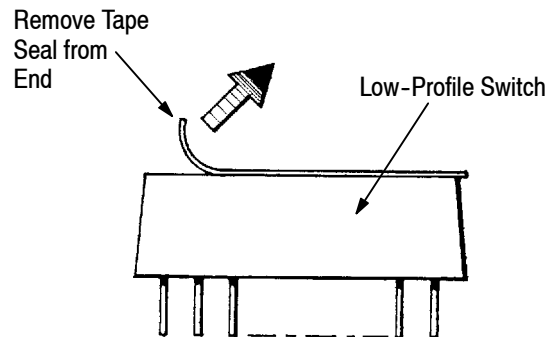
1. Remove seal from the switches, see Figure 6.

Remove Tape Seal from End

Low-Profile Switch

Remove Seal from Top Left to Bottom Right (Diagonal Across the Switch)

Masking Material Seal

Standard-Profile or Side-Actuated Switch
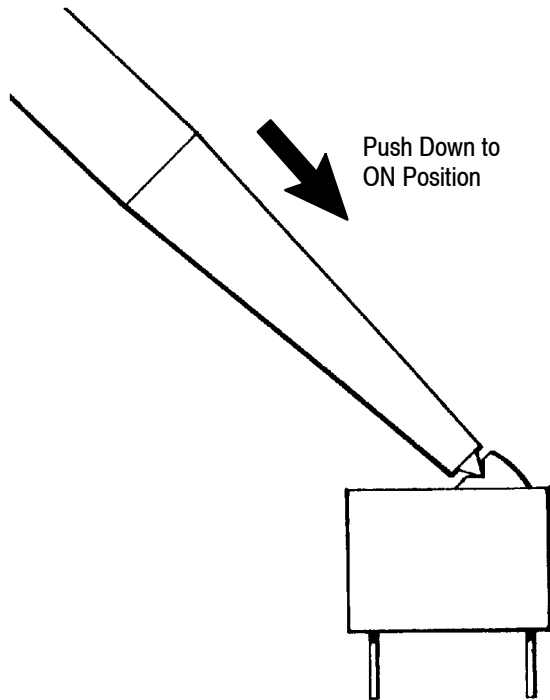
Figure 6

Push Down to
ON Position

Figure 7

2. Determine which circuits are to be closed, then depress applicable rockers to ON position. Refer to Figure 7.

5. REVISION SUMMARY

- Updated document to corporate requirements
- New logo