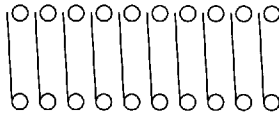


Dual In-Line Package (DIP) Switches — 7100 Series (Continued)

Single Pole Single Throw

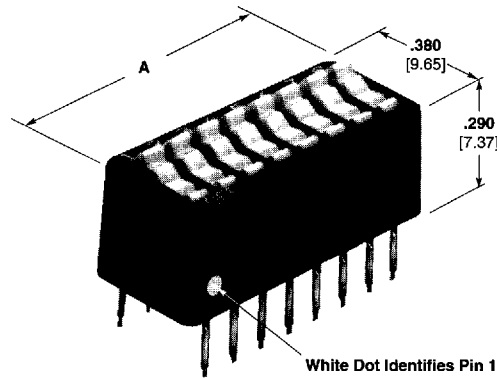
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

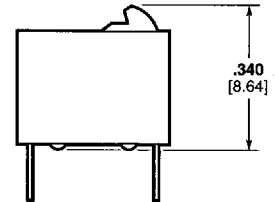


Pin 1

Note: Switches shown in open position.



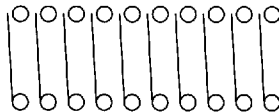
White Dot Identifies Pin 1



Single Pole Single Throw Low Profile

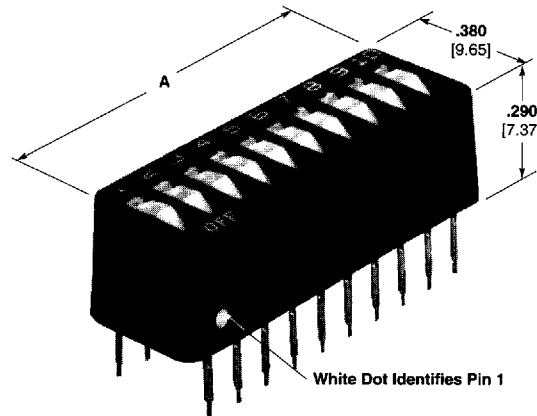
Contact Lead Spacing —
.100 x .300 [2.54 x 7.62]
Lead Length — .140 [3.56]
below mounting surface

Contact Arrangement

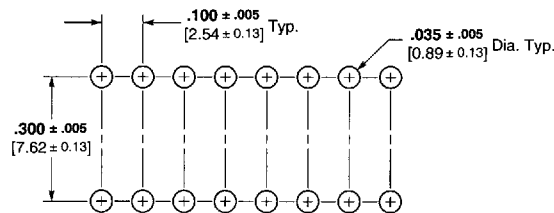
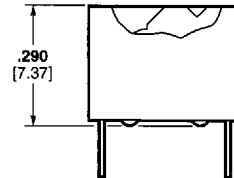


Pin 1

Note: Switches shown in open position.



White Dot Identifies Pin 1



Recommended PC Board Hole Pattern

No. of Switches	Dim. A		SPST Standard Profile			SPST Low Profile		
	inch	mm	Unsealed ¹ Part No.	Sealed Part No.	UV Sealed Part No.	Unsealed ¹ Part No.	Tape Sealed Part No.	UV Sealed Part No.
2	.280	7.11	2-435640-9	—	3-435640-3	435668-1	2-435668-6	2-382434-6
3	.380	9.65	3-435640-0	—	3-435640-4	435668-2	3-435668-3	3-382434-3
4	.480	12.19	435640-2	3-435640-5	3-382396-5	435668-3	3-435668-4	3-382434-4
5	.580	14.73	435640-3	3-435640-6	3-382396-6	435668-4	3-435668-5	3-382434-5
6	.680	17.27	435640-4	3-435640-7	3-382396-7	435668-5	2-435668-5	2-382434-5
7	.780	19.81	435640-1	3-435640-8	—	435668-6	2-435668-7	2-382434-7
8	.880	22.35	435640-5	3-435640-9	3-382396-9	435668-7	2-435668-8	2-382434-8
9	.980	24.89	435640-6	4-435640-0	—	—	2-435668-9	2-382434-9
10	1.080	27.43	435640-7	4-435640-1	4-382396-1	435668-9	3-435668-0	3-382434-0
11	1.180	29.97	—	—	—	—	3-438668-1	—
12	1.280	32.51	3-435640-2	4-435640-3	—	1-435668-1	3-435668-2	3-382434-2

¹ All switches are bottom sealed.

Dual In-Line Package (DIP) Switches — 7100 Series

AMP 7100 Series DIP Switches are recommended for programming applications where the number of cycles per pole is limited. These single pole, single throw switches have been designed for a life of 2000 cycles per pole and feature contacts of copper alloy with .000030 [0.00076] gold over nickel plating in the contact area and legs plated to meet AMP Solderability Specification 109-11-3. In addition, the SPST standard and low profile switches are also available with a top seal to provide protection during soldering and cleaning processes.

Performance Characteristics**Current and Voltage Rating:**

Nonswitching — 1.0 amperes max. at 40 VDC
Switching — 60 milliamperes max at 5 VDC (resistive load);
15 milliamperes max. at 24 VDC (resistive load)

Contact Resistance, Dry Circuit:

100 milliohms max. (end of life) and 50 milliohms (initial) at 50 mV open circuit, 50 milliamperes

Insulation Resistance:

1 x 10⁹ ohms min. at 100 VDC (initial)

Dielectric Withstanding Voltage:

500 VDC min. at standard atmospheric conditions

Capacitance:

5 picofarads max.

Temperature Rating:

Nonoperating — -73°C to +105°C
Operating — -55°C to +105°C

Vibration:

Discontinuities shall not exceed 10 microseconds when subjected to 10-2000-10 Hz transversing for 20 minutes at .060 [1.52] inches total excursion

Shock:

No physical damage or discontinuities greater than 10 microseconds when tested with .10 ampere current applied per AMP Specification 109-26, Condition A

Humidity:

Withstands an environment of +40°C and 95% RH for 96 hours

Durability:

No physical damage or contact resistance greater than 100 milliohms after 2000 cycles of actuation with a resistive load of 24 VDC and 25 milliamperes max. current applied

Terminal Strength (Bend Test):

Two (2) 45° bend cycles per MIL-STD-202, Method 211, Condition B

Materials**Housing:**

Glass-filled polyester, 94V-0 rated, blue

Rocker:

Thermoplastic, 94V-0 rated, white

Spring Contacts and Leads:

Copper alloy with .000030 [0.00076] gold over .000050 [0.00127] nickel in contact area and .000150 [0.00381] tin-lead over .000050 [0.00127] nickel on solder legs, plated to meet AMP Solderability Specification 109-11-3.

Technical Documents**Product Specification:**

108-7532

Instruction Sheet:

408-07779