

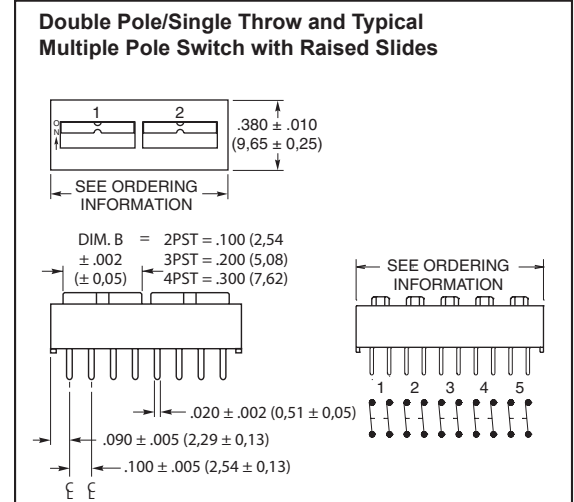
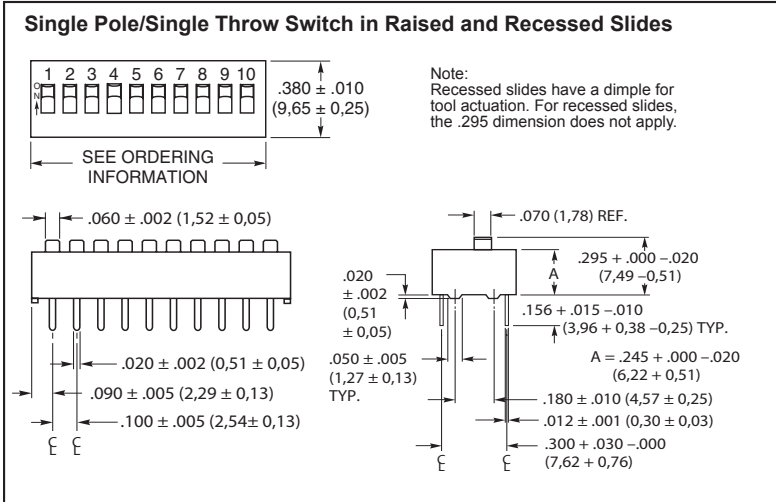
SERIES 78 SPST To 4PST Slide

- ### FEATURES
- Raised and Recessed Slides
 - SPST, 2PST, 3PST, 4PST
 - Sealed Base Standard
 - Spring and Ball Contact
 - Top Tape Seal Option



DIP Switches

DIMENSIONS In inches (and millimeters)



CIRCUITRY



For switches with 5, 6, 7, 8, or 10PST circuitry, contact Grayhill.

ORDERING INFORMATION

| Circuitry | No. of Positions | Length Inches | Length Metric | No./ Tube | Raised Slides* | Recessed Slides* | |
|-----------|------------------|---------------|---------------|-----------|----------------|-------------------------------|-------------------------------|
| SPST | 2 | 0.280" | 7,1mm | 35 | 78B02T | 78RB02T | |
| | 3 | 0.380" | 9,7mm | 27 | 78B03T | 78RB03T | |
| | 4 | 0.480" | 12,2mm | 21 | 78B04T | 78RB04T | |
| | 5 | 0.580" | 14,7mm | 18 | 78B05T | 78RB05T | |
| | 6 | 0.680" | 17,3mm | 15 | 78B06T | 78RB06T | |
| | 7 | 0.780" | 19,8mm | 13 | 78B07T | 78RB07T | |
| | 8 | 0.880" | 22,4mm | 12 | 78B08T | 78RB08T | |
| | 9 | 0.980" | 24,9mm | 10 | 78B09T | 78RB09T | |
| | 10 | 1.080" | 27,4mm | 9 | 78B10T | 78RB10T | |
| | 12 | 1.280" | 32,5mm | 8 | 78B12T | 78RB12T | |
| | 2PST | 1 | 0.280" | 7,1mm | 35 | 78F01T | Recessed Slides Not Available |
| | | 2 | 0.480" | 12,2mm | 21 | 78F02T | |
| 3 | | 0.680" | 17,3mm | 15 | 78F03T | | |
| 4 | | 0.880" | 22,4mm | 12 | 78F04T | | |
| 5 | | 1.080" | 27,4mm | 9 | 78F05T | | |
| 6 | | 1.280" | 32,5mm | 8 | 78F06T | | |
| 3PST | 1 | 0.380" | 9,7mm | 27 | 78G01T | Recessed Slides Not Available | |
| | 2 | 0.680" | 17,3mm | 15 | 78G02T | | |
| | 3 | 0.980" | 24,9mm | 10 | 78G03T | | |
| 4PST | 1 | 0.480" | 12,2mm | 21 | 78H01T | Recessed Slides Not Available | |
| | 2 | 0.880" | 22,4mm | 12 | 78H02T | | |

*A top tape seal is required for switches that are machine soldered or heavily cleaned after hand soldering. To order top seal versions, add "S" to the Grayhill part number.

Available from your local Grayhill Distributor.
For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

SPECIFICATIONS: Standard Styles

| Ratings | 76 | 78 | 90B |
|---|-----------------|-----------------|-----------------|
| Mechanical Life: Operations per switch position | 2,000 | 2,000 | 2,000 |
| Make-and-break Current Rating: Operations per switch position at these resistive loads 1 mA, 5 Vdc; 50 mA, 30 Vdc; or 150 mA, 30 Vdc: | 2,000 | 2,000 | — |
| 10 mA, 30 Vdc; or 10 mA, 50 mVdc: | — | — | 2,000 |
| 10 mA, 50 mVdc; or 25 mA, 24 Vdc; or 100 mA, 6 Vdc: | — | — | 2,000 |
| Contact Resistance: Initially: | ≤ 30 mΩ | ≤ 30 mΩ | ≤ 20 mΩ |
| After life, at 10 mA, 50 mVdc, open circuit: | ≤ 100 mΩ | ≤ 100 mΩ | ≤ 100 mΩ |
| Insulation Resistance: | | | |
| Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts | | | |
| Initially (Mohms): | 5,000 | 5,000 | 5,000 |
| After life (Mohms): | 1,000 | 1,000 | 1,000 |
| Dielectric Strength: Minimum voltage (AC, RMS) measured between adjacent closed contacts and also across open switch contacts. | | | |
| Initially: | 750 V | 750 V | 500 V |
| After life: | 500 V | 500 V | 500 V |
| Current Carry Rating: Maximum rise of 20°C | 5 A | 4 A | 3 A |
| Switch Capacitance: At 1 megahertz | 2 pF | 2 pF | 2 pF |
| Operating Temperature Range: | -40°C to + 85°C | -40°C to + 85°C | -40°C to + 85°C |
| Storage Temperature Range: | -55°C to + 85°C | -55°C to + 85°C | -55°C to + 85°C |

Mechanical Ratings

Vibration Resistance: Per Method 204, Test Condition B, 1 mS opening (10 mS allowed)
Mechanical Shock: Per Method 213, Test Condition A, 1 mS opening (10 mS allowed)
Thermal Shock Resistance: Per specification; no failures; passes contact resistance.
Terminal Strength: Per specification
Thermal Aging: 1,000 hours at 85°C; no failures.

Environmental Ratings

Meets all requirements of MIL-S-83504. Where Grayhill performance is superior, the MIL spec is listed in parentheses.
Moisture Resistance: Per specification, Method 106.

Soldering Information

Series 90 MIDIP® and Series 76 recessed rocker (76RSB style) sealed switches have been tested to EIA Standard RS-448-2. Similar performance can be expected from other sealed Series 76 and 78 DIP switches.
Solderability: Per MIL-STD-202, Method 208
Resistance to Soldering Heat: 76RSB: Passes EIA Standard using two, four, and six second soldering time. 90: Per MIL-S-83504, six second test.
Fluxing: Per EIA RS-448-2 with flux touching switch body.
Cleaning: 76, 78 and 90 Series tape sealed products: Passes immersion test using water/detergent. Acceptable solutions include 1-1-1 trichlorethane, freon, (TF, TE, or TMS), isopropyl alcohol, detergent (140°F maximum). Terpene acceptable for Series 90 only. Solutions which are not recommended include acetone, methylene chloride, freon TMC.

Materials and Finishes

Shorting Member (Ball): Brass, gold-plated 10 microinches minimum over nickel barrier.
Base Contacts: Copper alloy, gold-plated over nickel barrier.
Terminals: Copper alloy, matte-tin plated over nickel barrier.
Non-Conductive Parts: Thermoplastic (UL94V-O)
Potting Material: Epoxy, 76,78 only.
Protective Cover: 76,78, only-Polycarbonate.

Tape and Reel Packaging

Tape Seal:
76, 78: Polyester film
90: Polyimide film
Tape Seal Integrity: Passes gross leak test using 125°C flourinert for 20 seconds minimum. Reference MIL-STD-202, Method 112.



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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Электронная почта: org@eplast1.ru

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