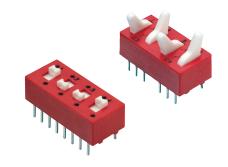


SERIES 76 and 78 SPDT

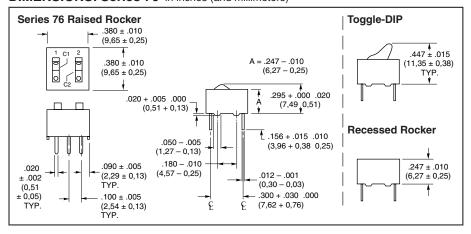
FEATURES

- Raised and Recessed Rocker, and Toggle Actuated Styles
- SPDT with a Common Pole, or SPDT with 2 Isolated Circuits
- Spring and Ball Contact
- Top Tape Seal Option for Most Styles
- RoHS Compliant

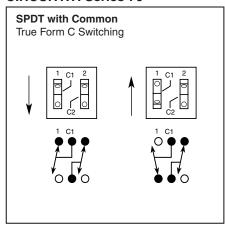




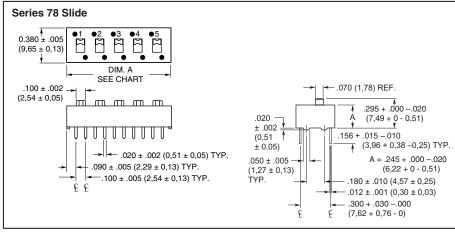
DIMENSIONS: Series 76 in inches (and millimeters)



CIRCUITRY: Series 76



DIMENSIONS: Series 78 in inches (and millimeters)

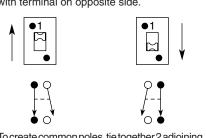


CIRCUITRY: Series 78

SPDT, 2 Circuits

(No Commons)

Dot on cover indicates active terminal when slide is on that side of switch. Contact is made with terminal on opposite side.



To create common poles, tie together 2 adjoining terminals on 1 (either) side of switch.

ORDERING INFORMATION

OTIDETING IN OTIMATION							
Circuitry	Positions	Length Inches	Length Metric	No./ Tube	Raised Type*	Recessed Rockers*	Toggle- DIP*
SPDT	2	0.380"	9,7mm	27	76SC02T	76RSC02T	76STC02T
Form	3	0.580"	14,7mm	18	76SC03T	76RSC03T	76STC03T
С	4	0.780"	19,8mm	13	76SC04T	76RSC04T	76STC04T
SPDT	1	0.280"	7,1mm	35	78J01T	_	_
2	2	0.480"	12,2mm	21	78J02T	_	-
Circuits	3	0.680"	17,3mm	15	78J03T	_	-
	4	0.880"	22,4mm	12	78J04T	_	-
	5	1.080"	27,4mm	9	78J05T	_	-
	6	1.280"	32.5mm	8	78J06T		

ADDITIONAL INFORMATION

See Options and Accessories brochure

Available from your local Grayhill Distributor.

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

^{*}To order top seal versions, add "S" before the "T" in the Grayhill part number. Not available on Toggle-DIP.



SPECIFICATIONS: Standard Styles

Ratings Mechanical Life: Operations per switch position	76 2,000	78 2,000	90B 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: 10 mA, 30 Vdc; or 10 mA, 50 mVdc: 10 mA, 50 mVdc; or 25 mA, 24 Vdc; or 100 mA, 6 Vdc:	2,000 	2,000 	 2,000 2,000
Contact Resistance: Initially: After life, at 10 mA, 50 mVdc, open circuit:	$\leq 30~\text{m}\Omega \\ \leq 100~\text{m}\Omega$	$\leq 30~\text{m}\Omega \\ \leq 100~\text{m}\Omega$	$\leq 20~\text{m}\Omega \\ \leq 100~\text{m}\Omega$
Insulation Resistance: Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts Initially (Mohms): After life (Mohms):	5,000 1,000	5,000 1,000	5,000 1,000
Dielectric Strength: Minimum voltage (AC, RMS) measured between adjacent closed contacts and also across open switch contacts. Initially: After life:	750 V 500 V	750 V 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

*For the most current soldering & cleaning processing guidelines, reference Grayhill Dip Switch Processing Information, Bulletin 1234

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

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.