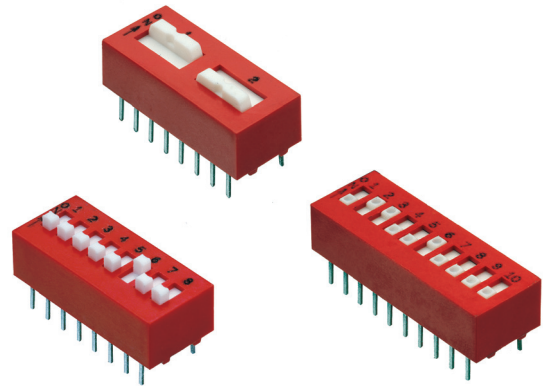
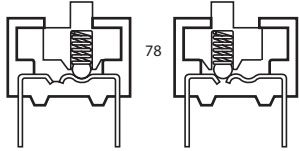


## SERIES 78 SPST To 4PST Slide

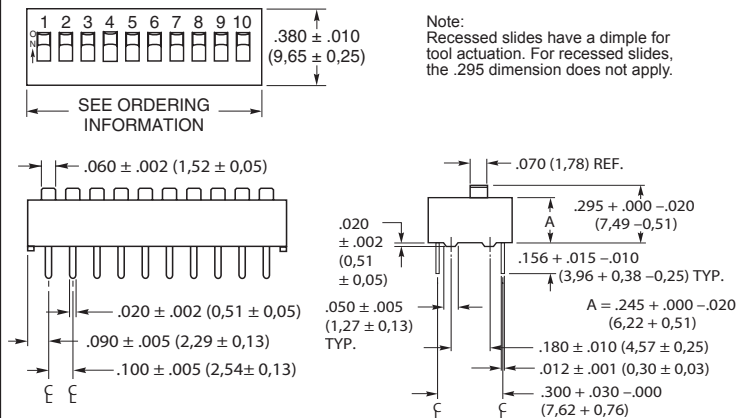
### FEATURES

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

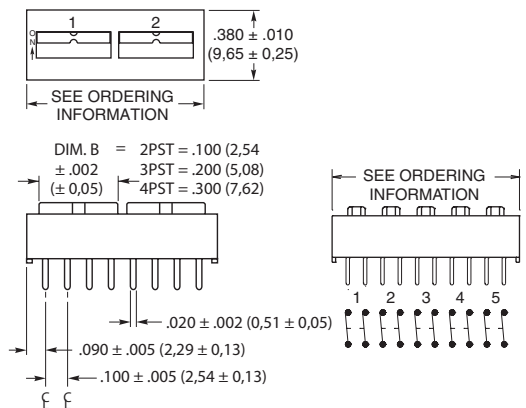


### DIMENSIONS In inches (and millimeters)

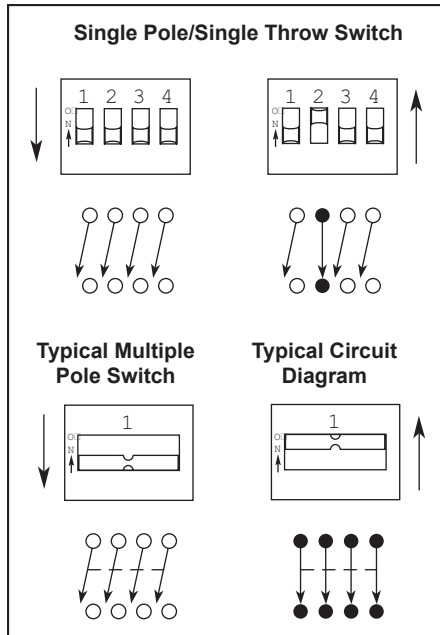
#### Single Pole/Single Throw Switch in Raised and Recessed Slides



#### Double Pole/Single Throw and Typical Multiple Pole Switch with Raised Slides



### 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
<b>Mechanical Life:</b> Operations per switch position	2,000	2,000	2,000
<b>Make-and-break Current Rating:</b> 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
<b>Contact Resistance:</b> Initially:	≤ 30 mΩ	≤ 30 mΩ	≤ 20 mΩ
After life, at 10 mA, 50 mVdc, open circuit:	≤ 100 mΩ	≤ 100 mΩ	≤ 100 mΩ
<b>Insulation Resistance:</b>			
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
<b>Dielectric Strength:</b> 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
<b>Current Carry Rating:</b> Maximum rise of 20°C	5 A	4 A	3 A
<b>Switch Capacitance:</b> At 1 megahertz	2 pF	2 pF	2 pF
<b>Operating Temperature Range:</b>	-40°C to + 85°C	-40°C to + 85°C	-40°C to + 85°C
<b>Storage Temperature Range:</b>	-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 fluorinert for 20 seconds minimum. Reference MIL-STD-202, Method 112.

# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

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