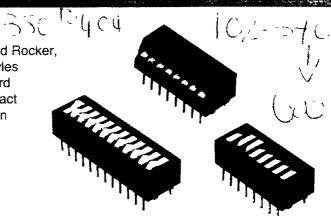
SERIES 76

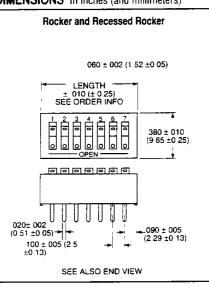


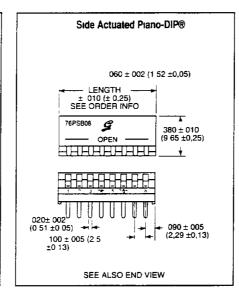


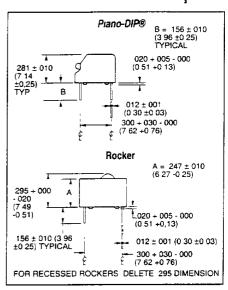
- FEATURES 16 4 350
- Raised and Recessed Rocker, And PIANO-DIP® Styles
- · Sealed Base Standard
- . Spring and Ball Contact
- Top Tape Seal Option



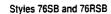
DIMENSIONS In inches (and millimeters)

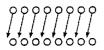




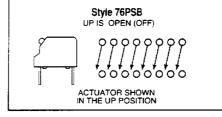


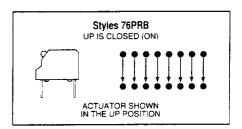
CIRCUITRY





TYPICAL CIRCUIT DIAGRAM WITH ACTUATOR AS SHOWN IN THE DIMENSIONAL DRAWING





ORDERING INFORMATION*

No Of Positions	Length Inches	Length Metric	No / Tube	Raised Rocker	Recessed Rocker	PIANO-DIP® Up is Off	PIANO-DIP® Up is On
2	0 280"	7,1mm	35	76SB02	76R\$B02	76PSB02	76PRB02
3	0 380"	9,7mm	27	76SB03	76RSB03	76PSB03	76PRB03
4	0 480"	12,2mm	21	76SB04	76RSB04	76PSB04	76PRB04
5	0 580"	14,7mm	18	76SB05	76RSB05	76PSB05	76PRB05
6	0 680"	17,3mm	15	76SB06	76RSB06	76PSB06	76PRB06
7	0 780"	19,8mm	13	76SB07	76R\$B07	76PSB07	76PRB07
8	0 880"	22,4mm	12	76SB08	76RSB08	76PSB08	76PRB08
9	0 980"	24,9mm	10	76SB09	76RSB09	76PSB09	76PRB09
10	1 080"	27,4mm	9	76SB10	76RSB10	76PSB10	76PRB10
12	1 280"	32,5mm	8	76SB12	76RSB12	76PSB12	76PRB12

^{*} 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.

SPECIFICATIONS

See page 16

Available From Local Grayhill Distributors
Priced competitively For prices and discounts,
contact a local Sales Office an authorized local
Distributor, or Grayhill See inside front cover



SPECIFICATIONS-Standard and Military Qualified Styles

Ratings	76	78	908
Mechanical Life: Operations per switch position Make and Break Current Rating Operations	20,000	20,000	5,000
per switch position at these resistive loads 1 mA, 5 Vdc, 50 mA, 30 Vdc, or 150 mA, 30 Vdc	10,000	10,000	
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		_	_
Contact Resistance: Initially After life, at 10 mA, 50 Vdc, open circuit	$\leq 30 \text{ m}\Omega$ $\leq 100 \text{ m}\Omega$	$\leq 30 \text{ m}\Omega$ $\leq 100 \text{ m}\Omega$	≤ 20 mΩ ≤ 100 mΩ
insulation Resistance: Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts initially (megohms) After life (megohms)	5,000 1,000	5,000 1,000	1,000 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:	-40°C to + 85°C	-40°C to + 85°C	-40°C to + 85°C
Storage Temperature:	-55°C to + 85°C	-55°C to + 85°C	-40°C to + 85°C
Processing Position. Switch is to be processed with all actuators in the closed (on) position as shipped			

Environmental

Meets or surpasses all requirements of MIL- S-83504

Vibration: Per method 204, Test Condition B 1 microsecond opening

Mechanical Shock: Per Method 213, Test Condition A 1 microsecond opening

Moisture Resistance: Per specification, Method 106

Thermal Shock: Per specification, no failures, passes contact resistance

Terminal Strength: Per specification Thermal Aging. 1,000 hours at 85°C, no failures

Machine Soldering

Series 90 and Series 76 recessed rocker 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 Fluxing Per EIA RS-448-2 with flux touching switch body

Resistance to Soldering Heat: 76RSB-Passes EIA Standard using two, four, and six second soldering time 90—Per MIL-S-83504, six second test

Cleaning: 76RSB, 90—Passes immersion test using freon (TF or TE), and water/detergent Cleaning Solutions: 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 Tape Seal Integrity: Passes gross leak test

using 125°C flourinert for 20 seconds minimum Reference MIL-STD-202, Method 112

Materials and Finishes

Shorting Member (Ball) Brass gold plated 10 microinches minimum over nickel barrier Base Contacts. Copper alloy, gold plated 10 microinches minimum over nickel barrier Terminals: Copper alloy, solder (90/10) plated 100 microinches minimum over nickel barrier Gold plate is also available

Thermoplastic, Non-Conductive Parts UL94V-O rating

Potting Material. 76,78 only—Epoxy Tape Seal Series 76 and 78 polyester film Series 90 polymide film