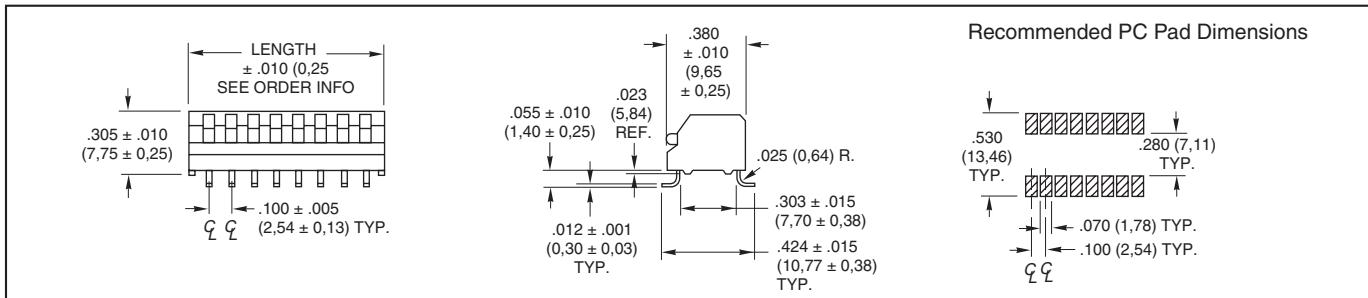


SERIES 76HP

Side Actuated PIANO-DIP®



DIMENSIONS In inches (and millimeters)



CIRCUITRY

As viewed from the top of the switch in the positions shown in the drawing.



SPECIFICATIONS

Electrical Ratings

Make-and-break Current Rating: 2,000 operations per switch position at 1 mA, 5 Vdc; 50 mA, 30 Vdc; or 150 mA, 30 Vdc

Contact Resistance: Initial: 30 mohms maximum; After Life: 100 mohms maximum (10 mA at 50 Vdc, open circuit)

Insulation Resistance: Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts. Initial: 2,000 Mohms

Dielectric Strength: Minimum voltage (AC RMS) measured between adjacent closed contacts and also across open switch contacts. Initial: 750 volts; After Life: 500 volts

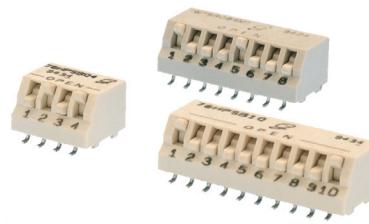
Carry Rating: 5 amps, maximum rise of 20°C
Switch Capacitance: 2 pF at 1 megahertz

Mechanical Ratings

Mechanical Life: 2,000 operations per switch position

FEATURES

- Compatible with SMT Assembly Including Infrared Reflow and Vapor-Phase
- Easily Accessed when PC Boards are Racked
- Reliable Spring and Ball Contact



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.

Operating Temperature Range: -40°C to +85°C

Storage Temperature Range: -55°C to +85°C

Moisture Resistance: Per MIL-STD-202, Method 106

Soldering Information

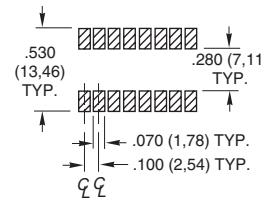
Solderability: Per MIL-STD-202, Method 208
Tested to EIA Standard RS-448-2.

Resistance to Soldering Heat: Per MIL-S-83504, six second test

Recommended Processing Temperature: 220°C-230°C (1 pass—260°C maximum)

Processing Position: Switch is to be processed with all actuators in the closed (on) position as shipped.

Recommended PC Pad Dimensions



Materials and Finishes

Shorting Member: Brass, gold-plated over nickel barrier.

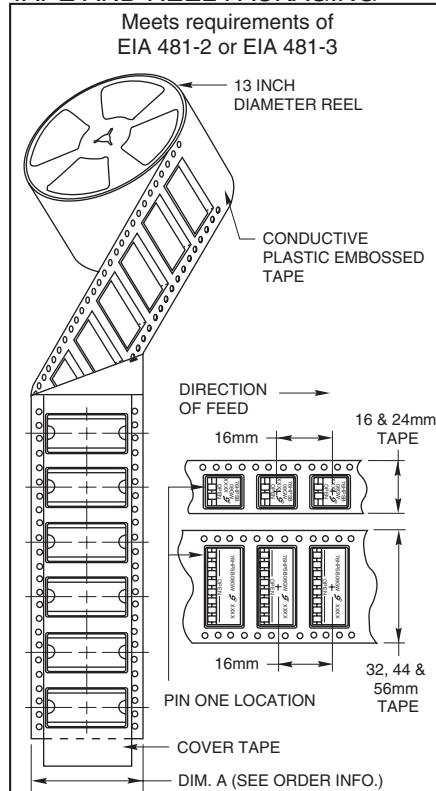
Base Contacts: Copper alloy, gold-plated, over nickel barrier.

Terminals: Copper alloy, matte tin plated over nickel barrier.

Non-Conductive Parts: Cover is natural color thermoplastic, actuators are white thermoplastic (UL94V-O)

Tape Seal: Not available with Tape Seal.

TAPE AND REEL PACKAGING



Each reel has a 15.750 inch (390 mm) minimum leader and a 6.30 inch (160 mm) minimum trailer.

ORDERING INFORMATION: Tape and Reel Packaging (500 switches per reel)

No. of Positions*	Length (inches)	Length (metric)	Carrier Width Dim. A	Part Number
2	0.280"	7.1 mm	24 mm	76HPSB02GWRT
4	0.480"	12.2 mm	24 mm	76HPSB04GWRT
6	0.680"	17.3 mm	32 mm	76HPSB06GWRT
8	0.880"	22.4 mm	44 mm	76HPSB08GWRT
10	1.080"	27.4 mm	44 mm	76HPSB10GWRT

* For other lengths, contact Grayhill, Inc.

** Note: 100% matte tin terminal plating does not meet MIL-S-83504 for lead content.

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Grayhill:

[76HPSB02GWRT](#) [76HPSB04GWRT](#) [76HPSB04GWT](#) [76HPSB06GWRT](#) [76HPSB08GWRT](#) [76HPSB08GWT](#)
[76HPSB10GWRT](#) [76HPSB06GWT](#) [76HPSB04T](#) [76HPSB06T](#) [76HPSB02GWT](#) [76HPSB10GWT](#) [76HPSB08T](#)