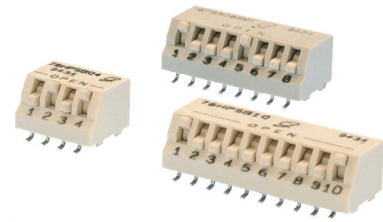


### SERIES 76HP

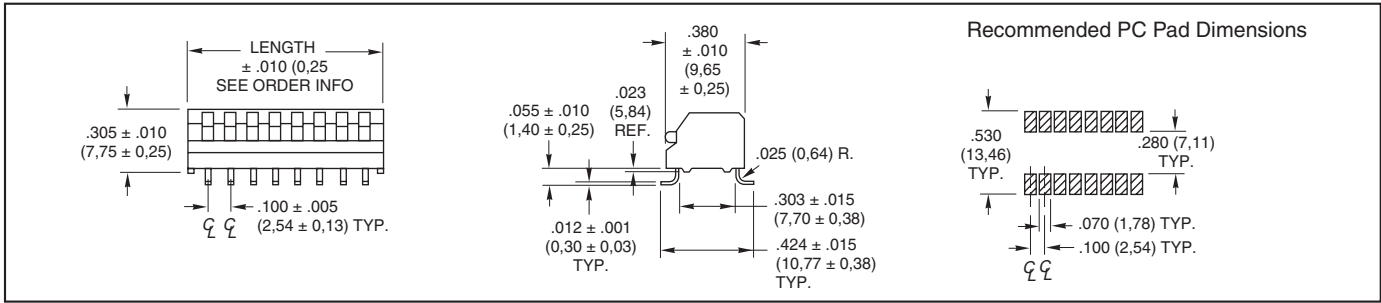
Side Actuated PIANO-DIP®

### FEATURES

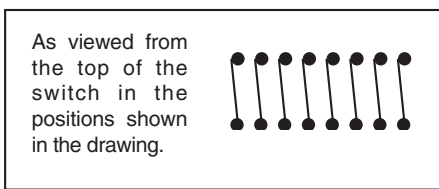
- Compatible with SMT Assembly Including Infrared Reflow and Vapor-Phase
- Easily Accessed when PC Boards are Racked
- Reliable Spring and Ball Contact



### DIMENSIONS In inches (and millimeters)



### CIRCUITRY



### 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

**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.

### Materials and Finishes

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

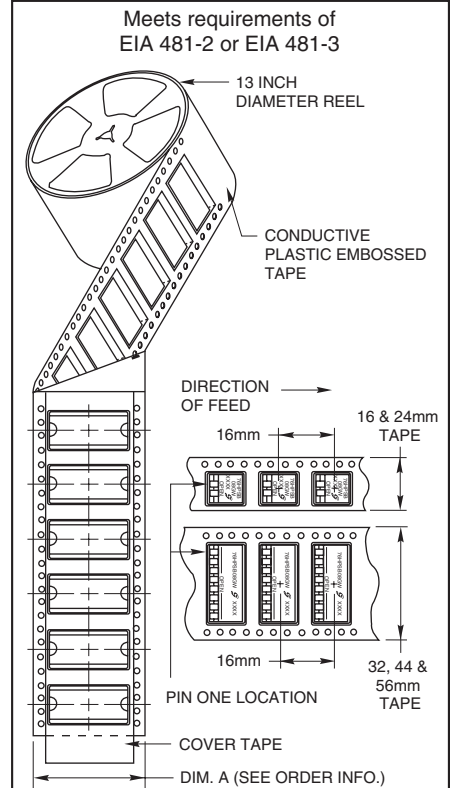
**Base Contacts:** Copper alloy, gold-plated, over nickel barrier.

**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.