



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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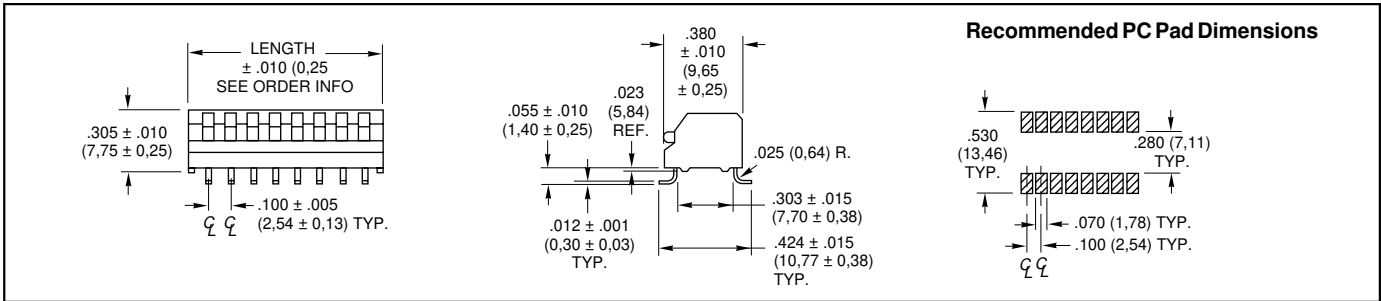
**SERIES 76HP**  
Side Actuated PIANO-DIP®

**FEATURES**

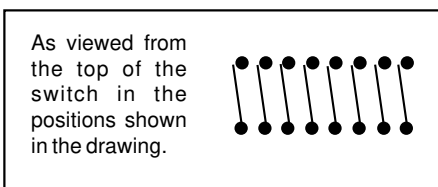
- Compatible with SMT Assembly Including Infrared Reflow and Vapor-Phase
- Easily Accessed when PC Boards are Racked
- Reliable Spring and Ball Contact



**DIMENSIONS** In inches (and millimeters)



**CIRCUITRY**



**SPECIFICATIONS**

**Electrical Ratings**

**Make-and-break Current Rating:** 10,000 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:** 20,000 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 specification, 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,

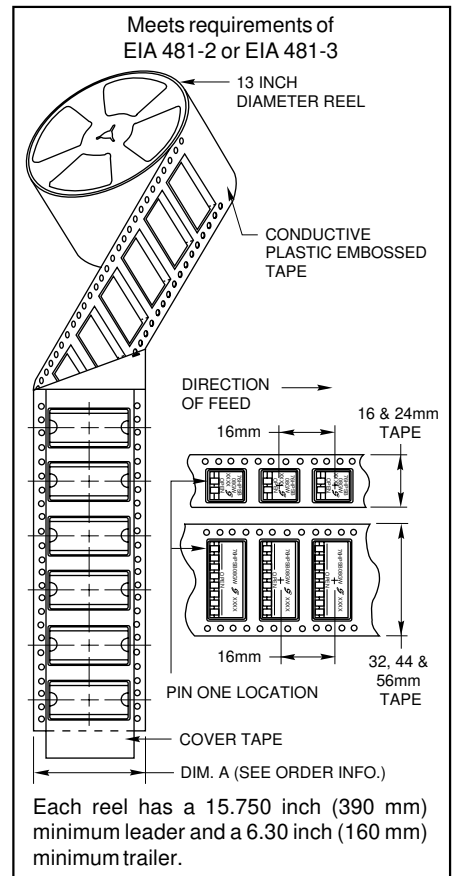
over nickel barrier.

**Terminals:** Copper alloy, solder plated over nickel barrier.

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

**Tape Seal:** Provided without tape seal. Contact Grayhill if tape seal is required.

**TAPE AND REEL PACKAGING**



**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	76HPSB02GWR
4	0.480"	12,2 mm	24 mm	76HPSB04GWR
6	0.680"	17,3 mm	32 mm	76HPSB06GWR
8	0.880"	22,4 mm	44 mm	76HPSB08GWR
10	1.080"	27,4 mm	44 mm	76HPSB10GWR

\* For other lengths, contact Grayhill, Inc.

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