

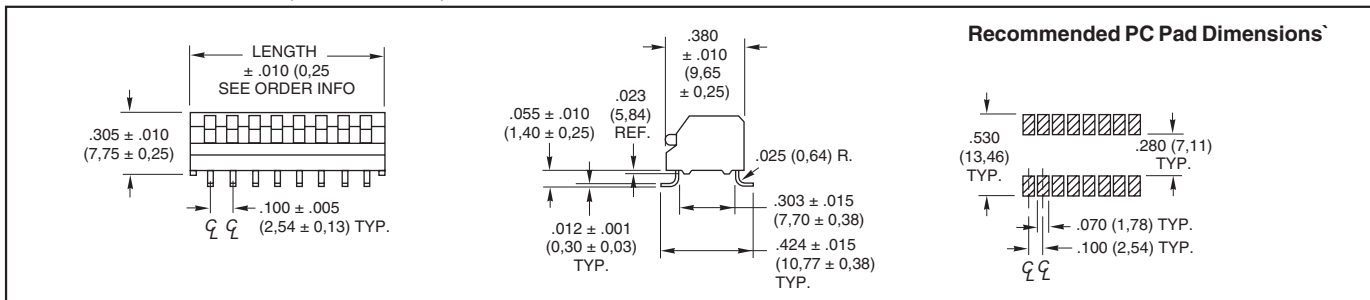
**SERIES 76HP**  
Side Actuated PIANO-DIP®

**FEATURES**

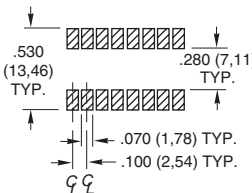
- Compatible with SMT Assembly Including Infrared Reflow and Vapor-Phase
- Easily Accessed when PC Boards are Racked
- Reliable Spring and Ball Contact



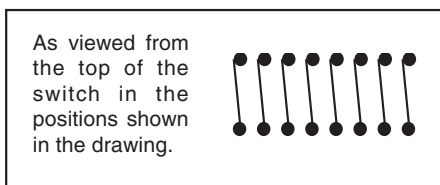
**DIMENSIONS** In inches (and millimeters)



**Recommended PC Pad Dimensions**



**CIRCUITRY**



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

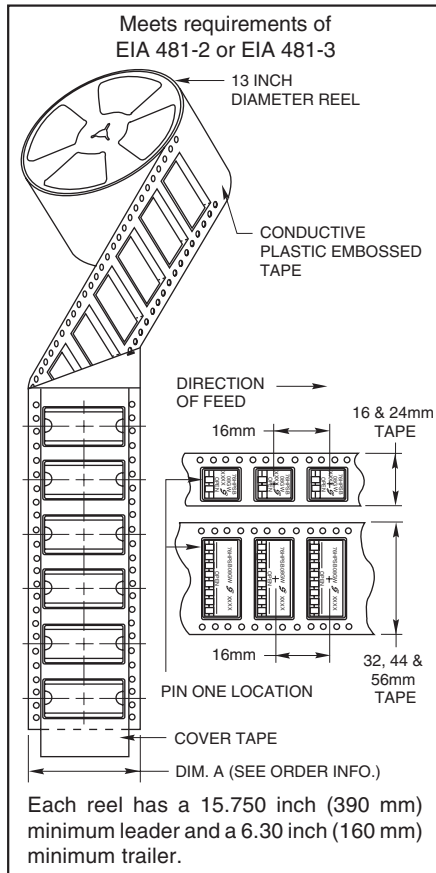
over nickel barrier.  
**Base Contacts:** Copper alloy, gold-plated, over nickel barrier.  
**Terminals:** Copper alloy, matte tin plated over nickel barrier.  
**Non-Conductive Parts:** Cover is natural color thermoplastic, actuators are white thermoplastic (UL94V-O)  
**Tape Seal:** Not available with Tape Seal.

**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

**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

**TAPE AND REEL PACKAGING**



**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.

**Mechanical Ratings**  
**Mechanical Life:** 2,000 operations per switch position  
**Vibration Resistance:** Per Method 204, Test

**Materials and Finishes**  
**Shorting Member:** Brass, gold-plated

**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.

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

DIP Switches