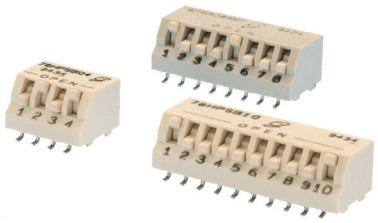
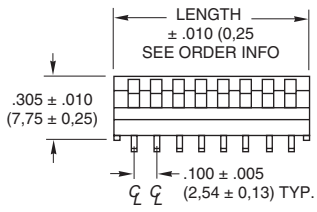
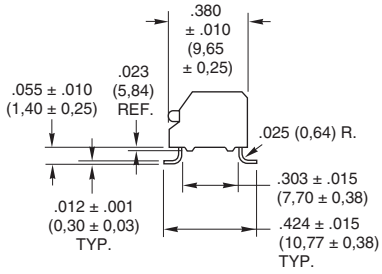
SERIES 76HP
Side Actuated PIANO-DIP®

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

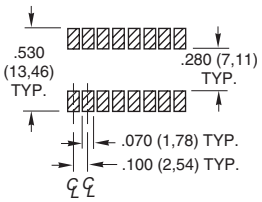


DIMENSIONS In inches (and millimeters)





Recommended PC Pad Dimensions



CIRCUITRY

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
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

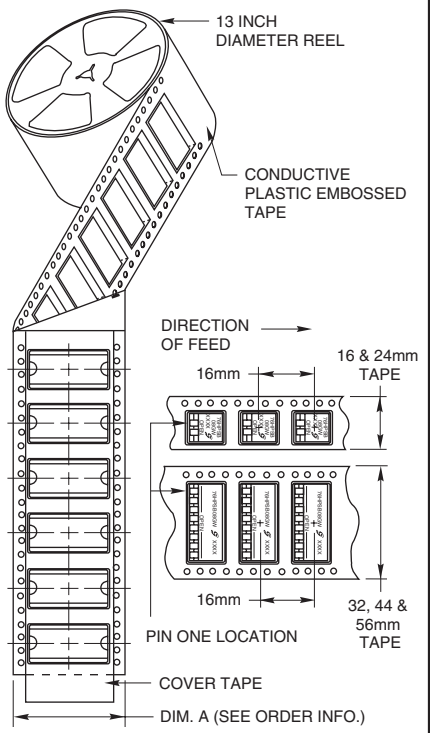
Environmental Ratings
Meets all requirements of MIL-S-83504**. Where Grayhill performance is superior, the MIL spec is listed in parentheses.
Operating Temperature Range: -40°C to + 85°C
Storage Temperature Range: -55°C to + 85°C
Moisture Resistance: Per MIL-STD-202, Method 106

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

Meets requirements of EIA 481-2 or EIA 481-3



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.

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