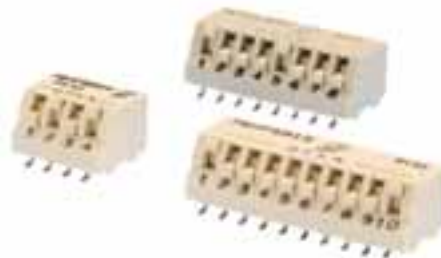


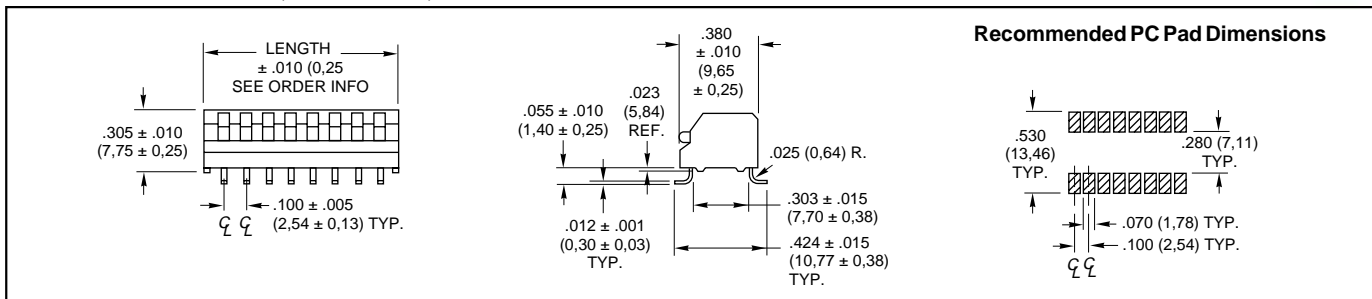
SERIES 76HP

FEATURES

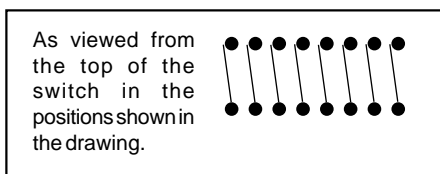
- Compatible with SMT Assembly Including Infrared Reflow and Vapor-Phase
- Easily Accessed when PC Boards are Racked
- Reliable Spring and Ball Contact



DIMENSIONS In inches (and millimeters)



CIRCUITRY



SPECIFICATIONS

Ratings

Mechanical Life: 20,000 operations per switch position

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:

- Initially: ≤ 30 mΩ
- After life: ≤ 100 mΩ at 10 mA, 50 Vdc, open circuit

Insulation Resistance: Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts

Initially (megohms): 2,000

Dielectric Strength: Minimum voltage (AC, RMS) measured between adjacent closed contacts and also across open switch contacts.

- Initially: 750 V
- After life: 500 V

Current Carry Rating: 5 A, maximum rise of 20°C

Switch Capacitance: 2 pF at 1 megahertz

Operating Temperature: -40°C to +85°C

Storage Temperature: -55°C to +85°C

SMT Processing Temperature: withstands 260°C max. (1 pass)

Environmental

Meets all requirements of MIL- S-83504. Where Grayhill performance is superior, the MIL spec is listed in parentheses.

Vibration: Per method 204, Test Condition B 1 microsecond opening (10microseconds allowed)

Mechanical Shock: Per Method 213, Test Condition A. 1 microsecond opening (10 microseconds allowed)

Moisture Resistance: Per specification, Method 106

Thermal Shock: Per specification; no failures; passes contact resistance

Terminal Strength: Per specification

Thermal Aging: 1,000 hours at 85°C; no failures

Soldering Information

Tested to EIA Standard RS-448-2.

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

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

Processing Temperature: 220°C–230°C recommended

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 10 microinches minimum over nickel barrier.

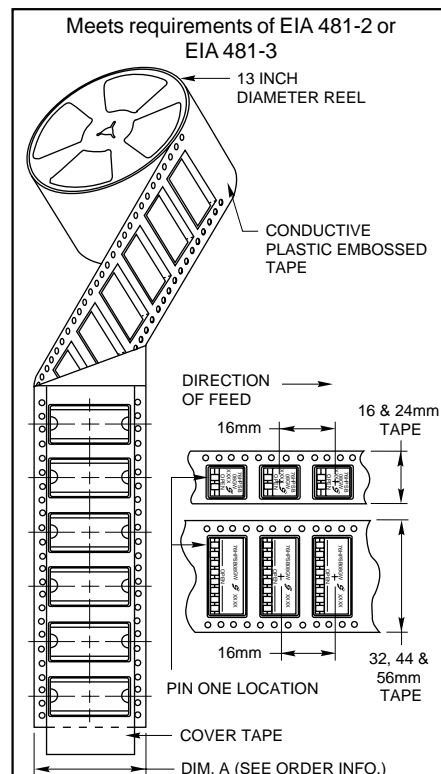
Base Contacts: Copper alloy, gold plated 10 microinches minimum over nickel barrier.

Terminals: Copper alloy, solder plated over nickel barrier.

Solderability: Per MIL-STD-202, Method 208

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

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	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. Evaluation reels containing 25 switches are available. Contact Sales Office.

Surface Mount and Thru-Hole DIP Switches