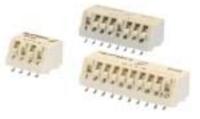


SERIES 76HP Side Actuated PIANO-DIP®

FEATURES

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



Recommended PC Pad Dimensions

280 (7,11)

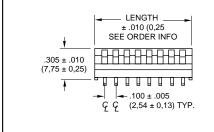
TYP.

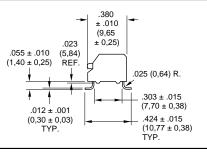
4

- .070 (1,78) TYP

.100 (2,54) TYP

DIMENSIONS In inches (and millimeters)





୧୧

88888888

CIRCUITRY

As viewed from the top of the switch in the positions shown in the drawing.



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,

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.

over nickel barrier.

ŧ

530

(13.46)

TYP.

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

