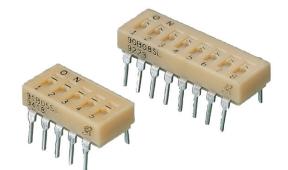


SERIES 90B AND 90GB Machine Insertable MIDIP

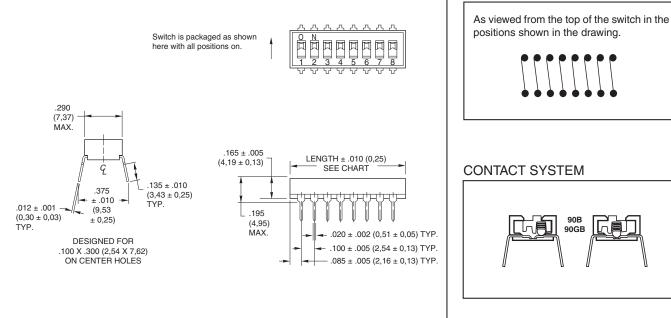
FEATURES

- Tested for TO-116 Equipment
- Up to 10 Positions
- High Pressure, Reliable Contacts
- Molded (Sealed) Base and
- Optional Top Seal
- RoHS Compliant





CIRCUITRY



ORDERING INFORMATION: Tube Packaging (Each tube is 19.5 inches long)

No. of	Length	Length	Number	Part Number	
Positions	Inches	Metric	Per Tube		
2	.270"	6,9 mm	60	90B02ST	90GB02ST
3	.370"	9,4 mm	47	90B03ST	90GB03ST
4	.470"	11,9 mm	37	90B04ST	90GB04ST
5	.570"	14,5 mm	31	90B05ST	90GB05ST
6	.670"	17,0 mm	26	90B06ST	90GB06ST
7	.770"	19,6 mm	23	90B07ST	90GB07ST
8	.870"	22,1 mm	20	90B08ST	90GB08ST
9	.970"	24,6 mm	18	90B09ST	90GB09ST
10	1.070"	27,2 mm	16	90B10ST	90GB10ST

ADDITIONAL INFORMATION Please visit our website for accessories.

Please visit our website for accessories.

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

*The "S" in the part number denotes top tape seal versions. To order without top tape seal, leave the "S" off the part number when ordering.

**Style "GB" contains 30µ gold plated terminals.

* To order, add L as a final suffix to the part number. For example, 76RSB08 becomes 76RSB08L; and 90B08S becomes 90B08SL.



Ratings Mechanical Life: Operations per switch position	76 2,000	78 2,000	90B 2,000	
Make-and-break Current Rating: Operations per switch position at these resistive loads 1 mA, 5 Vdc; 50 mA, 30 Vdc; or 150 mA, 30 Vdc: 10 mA, 30 Vdc; or 10 mA, 50 mVdc: 10 mA, 50 mVdc; or 25 mA, 24 Vdc; or 100 mA, 6 Vdc:	2,000 	2,000 	 2,000 2,000	
Contact Resistance: Initially: After life, at 10 mA, 50 mVdc, open circuit:	$\leq 30 \text{ m}\Omega \\ \leq 100 \text{ m}\Omega$	\leq 30 m Ω \leq 100 m Ω	$\leq 20 \text{ m}\Omega \\ \leq 100 \text{ m}\Omega$	
Insulation Resistance: Minimum, at 100 Vdc between adjacent closed contacts and also across open switch contacts Initially (Mohms): After life (Mohms):	5,000 1,000	5,000 1,000	5,000 1,000	
Dielectric Strength: Minimum voltage (AC, RMS) measured between adjacent closed contacts and also across open switch contacts. Initially: After life:	750 V 500 V	750 V 500 V	500 V 500 V	
Current Carry Rating: Maximum rise of 20°C	5 A	4 A	3 A	
Switch Capacitance: At 1 megahertz	2 pF	2 pF	2 pF	
Operating Temperature Range:	-40°C to + 85°C	-40°C to + 85°C	-40°C to + 85°C	
Storage Temperature Range:	-55°C to + 85°C	-55°C to + 85°C	-55°C to + 85°C	

Mechanical Ratings

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 Gravhill performance is superior, the MIL spec is listed in parentheses. Moisture Resistance: Per MIL-STD-202, Method 106.

Reflow Soldering

Profile:

(260°C

Soldering Information

*For the most current soldering & cleaning processing guidelines, reference Grayhill Dip Switch Processing Information, Bulletin 1234 Series 90 MIDIP and Series 76 recessed rocker

(76RSB style) sealed switches have been tested to EIA Standard RS-448-2. Similar performance can be expected from other sealed Series 76 and 78 DIP switches. Solderability: Per MIL-STD-202, Method 208

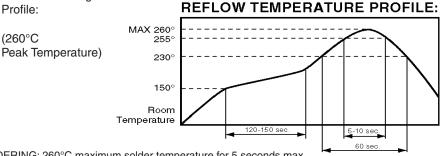
Resistance to Soldering Heat: 76RSB: Passes EIA Standard using two, four, and six

second soldering time. 90: Per MIL-S-83504, six second test.

Fluxing: Per EIA RS-448-2 with flux touching switch body.

Cleaning: 76, 78 and 90 series tape sealed products: Passes immersion test using water/ detergent. Acceptable solutions include 1-1-1 trichlorethane, freon, (TF, TE, or TMS), isopropyl alcohol, detergent (140°F maximum). Terpene acceptable for Series 90 only. Solutions which are not recommended include acetone, methylene chloride, freon TMC.

Recommended Soldering Conditions:



WAVE SOLDERING: 260°C maximum solder temperature for 5 seconds max. ** Note: 100% matte tin terminal plating does not meet MIL-S-83504 for lead content.

Materials and Finishes

Shorting Member (Ball): 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: Thermoplastic (UL94V-O)

Potting Material: Epoxy, 76,78 only.

Protective Cover: 76,78, only-Polycarbonate. Tape Seal:

76, 78: Polyester film

90. Polyimide film

Tape Seal Integrity: Passes gross leak test using 125°C flourinert for 20 seconds minimum. Reference MIL-STD-202, Method 112.

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