

FEATURES

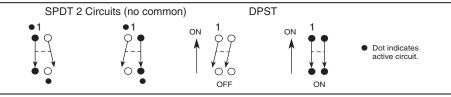
- Compatible with SMT Assembly Including Infrared Reflow and Vapor-Phase
- Reliable Spring and Ball Contact



SPDT, DPST, Top Actuated, Slide Operated **Recommended PC Pad Dimensions** LENGTH + .010 (0.25) .380 ± .010 SEE ORDER INFO (9.65 ± 0.25) .023 1 ΠΠ .055 ± .010 (5.84).530 .280 (7,11) $(1,40 \pm 0,25)$ REF. .268 ± .010 (13,46) TYP .025 (0,64) R. (6,81 ± 0,25) TYP. . 4 .303 + .015 -100 + 005 $295 \pm 000 - 020$.070 (1,78) TYP $(7,70 \pm 0,38)$.012 + .001 (2,54 ± 0,13) TYP. 9 (7,49 - 0,51)- .100 (2,54) TYP. G .424 ± .015 $(0,30 \pm 0,03)$ 99 (10,77 ± 0,38) TYP TYP

CIRCUITRY

DIP Switches



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

DIMENSIONS In inches (and millimeters)

Contact Resistance: Initial: 30 mohms max. After Life: 100 mohms max. (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; After Life: 1,000 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

Current Carry Rating: 4 amps, maximum rise of 20°C

Switch Capacitance: 2 pF at 1megahertz

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) Terminal Strength: Per specification

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

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

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 Soldering Heat Resistance: 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

ORDERING INFORMATION: Tube Packaging

No. of	Length	Length	Carrier Width	Part Number*	
Positions	(inches)	(metric)	Dim. A	SPDT	DPST
1	0.280"	7,1 mm	24 mm	78HJ01GWT	78HF01GWT
2	0.480"	12,2 mm	24 mm	78HJ02GWT	78HF02GWT
3	0.680"	17,3 mm	32 mm	78HJ03GWT	78HF03GWT
4	0.880"	22,4 mm	44 mm	78HJ04GWT	78HF04GWT
5	1.080"	27,4 mm	44 mm	78HJ05GWT	78HF05GWT

* Insert "R" before the "T" in the Grayhill part number for tape and reel packaging (500 switches/ reel).

** 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.

Materials and Finishes

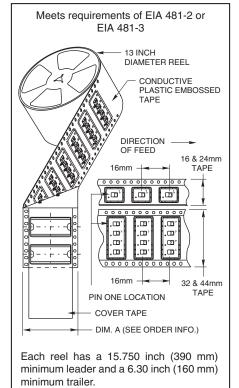
Shorting Member: Brass, gold-plated over nickel barrier.

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 AND REEL PACKAGING



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Grayhill:

78HJ02GWRT 78HF03GWRT 78HJ03GWRT 78HJ01GWRT 78HF05GWRT 78HF04GWRT 78HF05GWRT 78HF01GWRT 78HF01GWRT