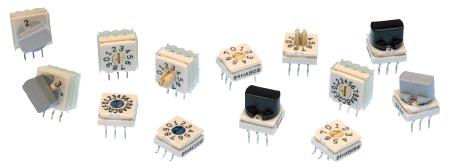
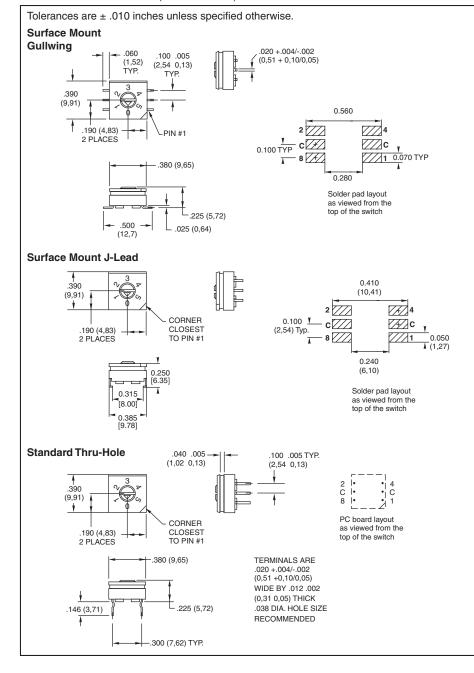


SERIES 94H Binary Coded



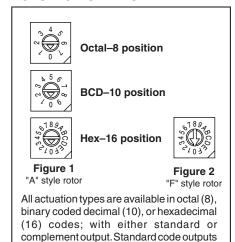
DIMENSIONS in inches (and millimeters)



FEATURES

- Sealed Construction; No Tape Seal Required
- Surface Mount or Thru-Hole Style
- Tube or Tape and Reel Packaging
- Octal, BCD, and Hexadecimal Code
- In Standard or Complement
- Standard and Right Angle Mount
- Flush or Extended Actuators
- Gold-Plated Contacts
- RoHS Compliant

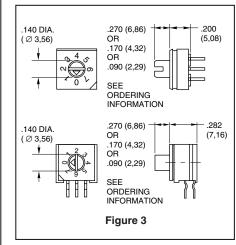
ACTUATOR STYLES



EXTENDED ACTUATOR TYPES

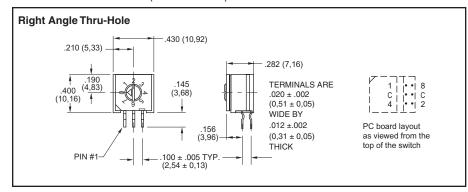
a contrasting color.

have natural color rotors; complements in

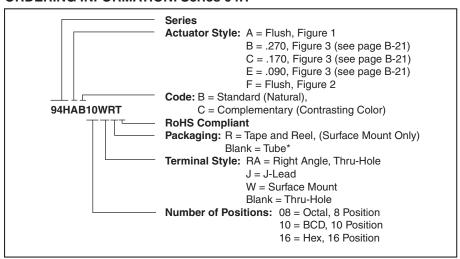




DIMENSIONS in inches (and millimeters)

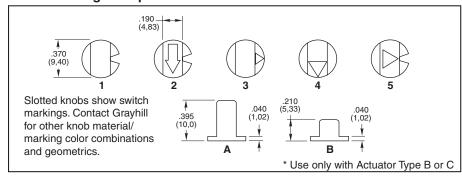


ORDERING INFORMATION: Series 94H



^{* 27} Pieces per tube for surface mount and thru-hole, 24 pieces per tube for right angle switches.

SERIES 94 High Temperature Knobs: For Shaft Extensions

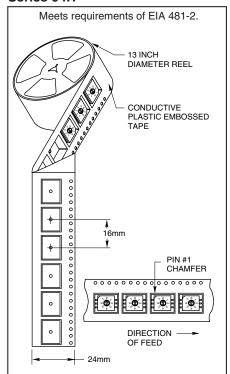


ORDERING INFORMATION: Series 94 High Temperature Knobs*

Knob Style and Height	Knob Color	Arrow Color	Part Number
1A	Gray	N/A	947706-001
5A	Gray	Black	947706-005
1B	Black	N/A	947705-001
1B	Gray	N/A	947705-012
2B	Gray	White	947705-004
3B	Gray	Black	947705-017
4B	Gray	Black	947705-018
1B	Natural	N/A	947705-009
4B	Black	White	947705-010
5B	Gray	Black	947705-019

^{*}Ordered as a separate item. B = Standard (Natural), C = Complementary (Contrasting Color).

TAPE AND REEL PACKAGING: Series 94H



Each reel contains the following number of switches with a 15.35 inch (390 mm) minimum leader and a 6.30 inch (160 mm) minimum trailer.

750 sw/reel
150 sw/reel
200 sw/reel
300 sw/reel
750 sw/reel



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



SPECIFICATIONS

Electrical Ratings

Make-and-break Current Rating: 30 mA at 30 Vdc for 10,000 cycles of operation.

Carrying Current Rating: 100 mA at 50 Vdc Contact Resistance: 50 mohms maximum initially (measured at 10 mA, 50 mVdc). 150 mohms maximum after life.

Insulation Resistance: (measured at 100 Vdc across open switch contacts)

Initial: 5000 Mohms minimum. After Life: 1000 Mohms minimum.

Dielectric Strength: (measured across open switch contacts) Initial: 500 Vac RMS minimum. After Life: 250 Vac RMS

Mechanical Ratings

Mechanical Life: 10,000 cycles of operation. One cycle is a rotation through all positions and a complete return through all positions.

Mechanical Shock: 1000g/s, 0.5 mS, half sine per MIL-STD-202F, Method 213, Test Condition E. Vibration Resistance: 10-2000 Hz at 15G or 0.060" double amplitude per MIL-STD-202F, Method 204, Test Condition B.

Operational Torque: 2 to 6 inch-ounces initially and 1.2 inch-ounces minimum after life.

Environmental Ratings Operating Temperature Range:

-40° to +85°C.

Storage Temperature Range: -40° to +85°C. Moisture Resistance: 240 hours with temperature cycling and polarization. Passes insulation resistance and dielectric strength per MIL-STD-202F, Method 106 following exposure.

Materials and Finishes

Rotor and Switch Body: Plastic (UL94V-O) Contact Material: Copper alloy plated. 30 microinches minimum gold over 50 microinches minimum nickel.

Shorting Member: Copper alloy plated. 30 microinches minimum gold over 50 microinches minimum nickel.

Terminals: Copper alloy, matte tin plated over nickel barrier.

Internal O-ring: Rubber BUNA-N

Standard

Complement

Soldering Information

*For the most current soldering & cleaning processing guidelines, reference Grayhill Dip Switch Processing Information, Bulletin 1234

Soldering Temperature: 260° C maximum. Cleaning: Acceptable solutions include 1-1-1 Trichlorenthane, Freon (TF, TE, or TMS), Isopropyl Alcohol and detergent (140°F maximum). Solutions which are not recommended include Acetone, Methylene Chloride, and Freon TMC.

CODE & TRUTH TABLES

All switches are continuous rotation.

Dot indicates terminal to common connection.

Octal and Octal Complement outputs are 0 thru 7 positions.

BCD and BCD Complement outputs are 0 thru 9 positions.

Hexadecimal and Hexadecimal Complement outputs are 0 thru F positions.

Standard codes have natural color rotors. Complements have rotors in a contrasting color.

	Output						Output			
CODE OUTPUT				CODE OUTPUT						
		1	2	4	8		1	2	4	8
SWITCH POSITION	0						•	•	•	•
	1	•						•	ullet	•
	2		ullet				lacksquare		•	•
	3	•	•						•	•
	4			•			•	•		•
	5	•		•				•		•
	6		•	ullet			•			•
	7	•	•	•						•
	8				•		•	•	•	
	9	•			•			•	•	
	Α		•		•		•		•	
	В	•	•		•				•	
	С			•	•		•	•		
	ם	•		•	•			•		
	Ε		•	•	•		•			
	F	•	•	•	•					

Mouser Electronics

Authorized Distributor

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

Grayhill:

947705-001 947705-012 947705-017 94HBB08RAT 94HBB08T 94HBB10T 94HBB16RAT 94HBB16T
94HBB16WRT 94HBB16WT 94HBC16T 94HCB10T 94HCB10WT 94HCC10RAT 94HCC10T 94HB08T
94HEB08WRT 94HEB10T 94HEB16WRT 94HFB10T 94HFB16RAT 94HFC16WT 94HCC10WRT 94HCC08WT
94HFC16JRT 94HFB08WT 94HBC16WRT 94HFB08RAT 94HCB08T 94HFC16T 94HCC08JT 94HBC08RAT
94HBB10WRT 94HFC08T 94HBC08WT 94HCC16T 94HEB16RAT 94HEB10WRT 94HCB10RAT 94HFB10JRT
94HBB10RAT 94HBC10RAT 94HFB16WT 94HCB08WRT 94HBB10WT 94HCB16WRT 94HBC16WT 94HCC16WT
94HFB16JT 94HCC08RAT 94HFC08WRT 94HEB16T 94HBB10JT 94HEB08RAT 94HCC16RAT 94HEB10WT
94HBB08WRT 94HBC10WRT 94HEB16WT 94HBC16RAT 94HEB10RAT 94HFB16JRT 94HFB10RAT
94HFC10WRT 94HFC10RAT 94HFB08WRT 94HBC08WRT 94HFC08RAT 94HFB16JRT 94HFB10RAT
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94HCB10WRT 94HFC16RAT 94HFB16WRT 94HCB16T 94HFC16WRT 94HCB16RAT 94HFB10WT
94HBB08WT 94HCB16JT 94HCC08T 94HCC08WRT 94HFC10WT 94HFC08WT 94HFB16RAT 94HFB10WT
94HBB08WT 94HCB16JT 94HCC08T 94HCC08WRT 94HFC10WT 94T705-009 94HCB16RAT 94HBB08WT
94HFC10JRT 94HFC10JT 94HEB10JT