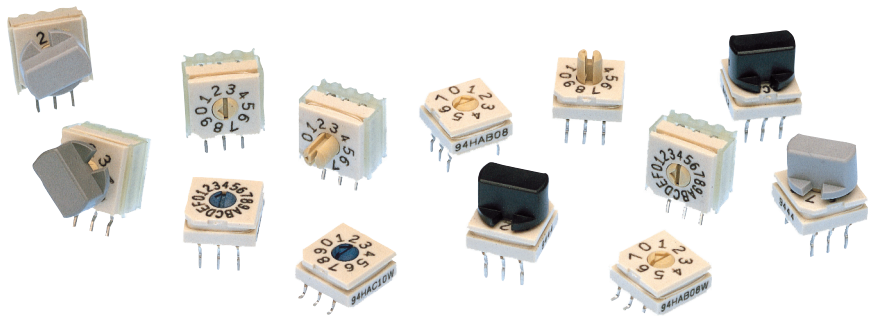
SERIES 94H
Binary Coded



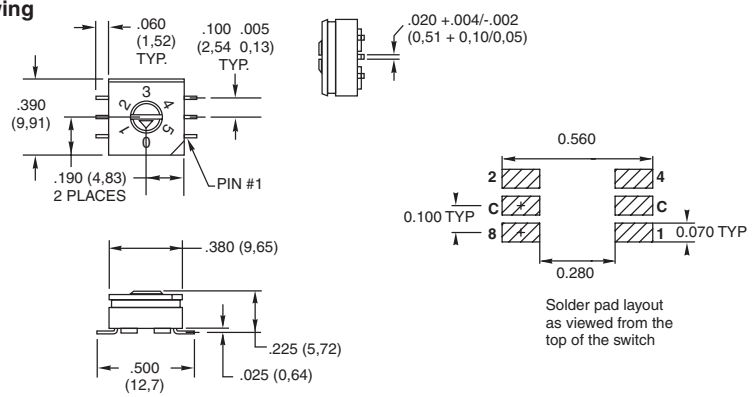
FEATURES

- 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

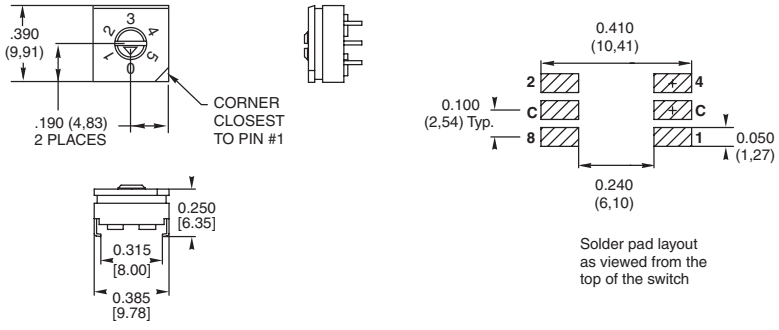
DIMENSIONS in inches (and millimeters)

Tolerances are ± .010 inches unless specified otherwise.

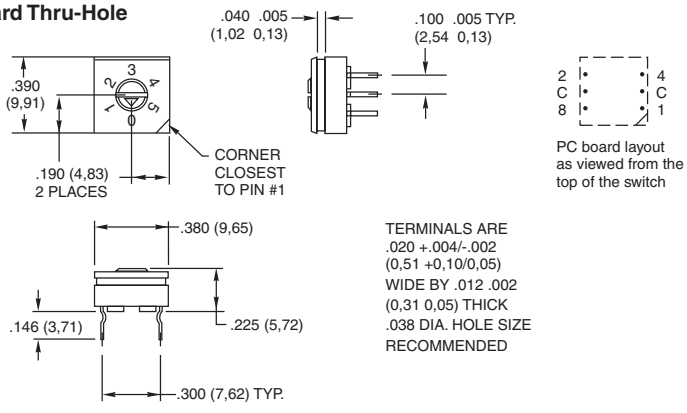
Surface Mount Gullwing



Surface Mount J-Lead



Standard Thru-Hole



ACTUATOR STYLES

Octal–8 position

BCD–10 position

Hex–16 position

Figure 1
"A" style rotor

Figure 2
"F" style rotor

All actuation types are available in octal (8), binary coded decimal (10), or hexadecimal (16) codes; with either standard or complement output. Standard code outputs have natural color rotors; complements in a contrasting color.

EXTENDED ACTUATOR TYPES

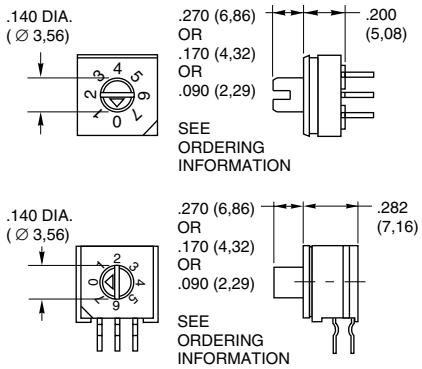
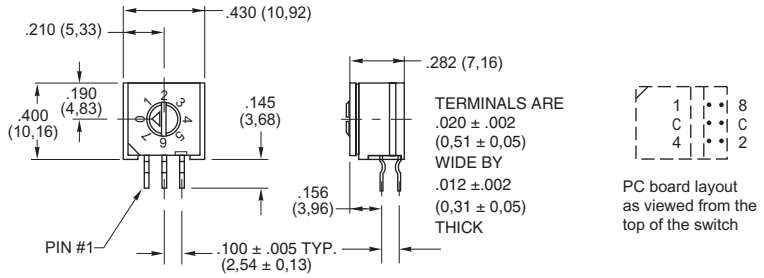


Figure 3

DIMENSIONS in inches (and millimeters)

Right Angle Thru-Hole



ORDERING INFORMATION: Series 94H

94HAB10WRT

Series

Actuator Style: A = Flush, Figure 1
B = .270, Figure 3 (see page B-21)
C = .170, Figure 3 (see page B-21)
E = .090, Figure 3 (see page B-21)
F = Flush, Figure 2

Code: B = Standard (Natural),
C = Complementary (Contrasting Color)

RoHS Compliant

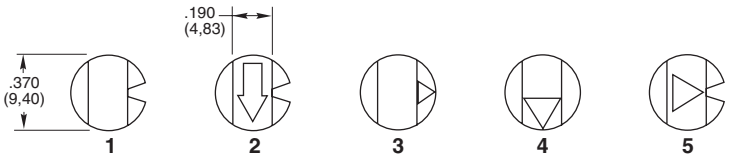
Packaging: R = Tape and Reel, (Surface Mount Only)
Blank = Tube*

Terminal Style: RA = Right Angle, Thru-Hole
J = J-Lead
W = Surface Mount
Blank = Thru-Hole

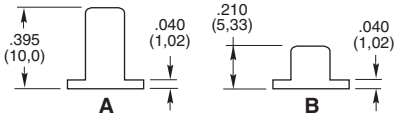
Number of Positions: 08 = Octal, 8 Position
10 = BCD, 10 Position
16 = Hex, 16 Position

* 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



Slotted knobs show switch markings. Contact Grayhill for other knob material/ marking color combinations and geometrics.



* Use only with Actuator Type B or C

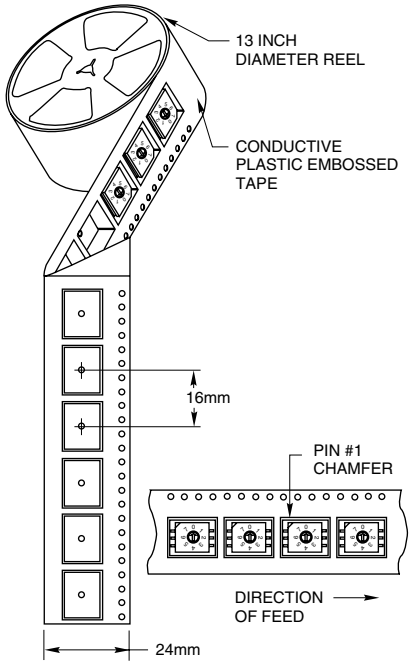
ORDERING INFORMATION: Series 94 High Temperature Knobs*

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).

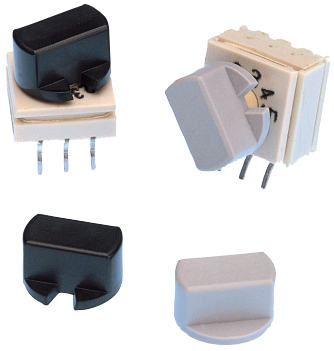
TAPE AND REEL PACKAGING: Series 94H

Meets requirements of EIA 481-2.



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.

94HA style	750 sw/reel
94HB style	150 sw/reel
94HC style	200 sw/reel
94HE style	300 sw/reel
94HF style	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

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.

		Standard Output				Complement Output			
		CODE OUTPUT				CODE OUTPUT			
		1	2	4	8	1	2	4	8
SWITCH POSITION	0					●	●	●	●
	1	●					●	●	●
	2		●			●		●	●
	3	●	●					●	●
	4			●		●	●		●
	5	●		●			●		●
	6		●	●		●			●
	7	●	●	●					●
	8				●	●	●	●	
	9	●			●		●	●	
	A		●		●	●		●	
	B	●	●		●			●	
	C			●	●	●	●		
	D	●		●	●		●		
	E		●	●	●	●			
	F	●	●	●	●				

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Coded Rotary Switches ***category:***

Click to view products by Grayhill ***manufacturer:***

Other Similar products are found below :

94HCB08W 94HCB10WR PT65503RT P60AS703 P60A503 P65THR101L254 RTE16 LFTSVTPL 13613 GSDR-10S CRD10CM0SBR DRS4116 RTE1600R44 ERD110RSZ ERD116CSZ ERD116RSZ ERD716M06Z 94HBB16WT 94HBB10WT 94HAC10T 94HAB16T 94HAB10WT 94HAB10RAT 94HAB08WT ERD216RSZ ND3FR10P DRR3110 S-4010TA 94HCB16WT 94HCB16T 94HCB10RAT 94HCB08T 94HAB16RAT 94HAB10T 94HAB08T S-2031A S-1010A RTE1000V14 RTBH31BS10ANNZP PT65501L254 PT65127L254 PT65502L508 1-1825007-1 1-1825007-6 ND3FR16B ND3FR16P-R SMR14116 RTE0400N04 RTE1000N14 RTE1002G14 RTE1002N14 RTE1010N14