

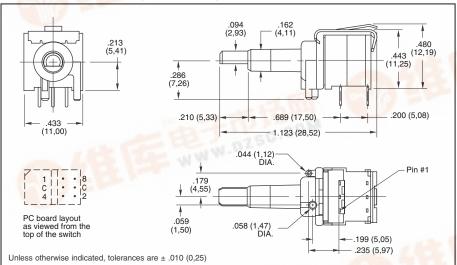
SERIES 94R

Economical, Binary Coded

FEATURES

- 10,000 Cycles of Operation
- Gold-Plated Contacts
- Sealed Contact System
- Right Angle Mount
- · Octal, BCD & Hexadecimal Codes
- Standard or Complement
- RoHS Compliant

DIMENSIONS In inches (and millimeters)



SPECIFICATIONS: Series 94H and 94R **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

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 12 inch-bunces 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

Hexadecimal

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.

CODE & TRUTH TABLES:

Series 94H and 94R

Standard			CODE OUTPUT				CODE OUTPUT			PUT	Complemen
utput			1	2	4	8	1	2	4	8	Output
		0					•	•	•	•	
		1	•				ot 6	•	•	•	
		2		•			•		•	•	
- 41	W	3	•	•		П		П	•	•	
- 10	z	4	Г		•	П	•	•			
	9	5	•	Г	•	П		•		•	
	=	6	Г	•	•	П	•				
	õ	7	•	•	•	П	П	П		•	
	SWITCH POSITION	8				•	•	•	•	П	
	Ö	9	•			•		•	•	П	
	5	Α		•		•	•		•	П	
	S	В	•	•		•			•	П	
		С	Г	Г	•	•	•	•		П	
		D	•		•	•		•		П	
		Ε	Г	•	•	•	•	Г		П	
		F	•	•	•	•		Т		H	

Dot indicates terminal to common connection. All switches are continuous

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

Standard codes have natural color rotors; complements have rotors in a contrasting color.

Internal O-ring: Rubber BUNA-N Soldering Information

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.

94RC16FT

ORDERING INFORMATION: Series 94R

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Continuous Rotat	ion Versions			
Code	No. of	Standard Code	Complement	
	Positions	Part Number	Part Number	
Octal	8	94RB08CT	94RC08CT	
BCD	10	94RB10CT	94RC10CT	
Hexadecimal	16	94RB16CT	94RC16CT	
Rotational Stop V	ersions*		•	
Code	No. of	Standard Code	Complement	
	Positions	Part Number	Part Number	

94RB16FT