



Model 200 Industrial – Wirewound – Potentiometer 1¼" Long

OBSOLETE

FEATURES

- Lowest cost military quality potentiometer.
- Ideal for computers and laboratory type applications.
- Exceeds steady state humidity requirements of MIL-STD-202.
- Power dissipation — 0.50 watt at 70°C.
- Precision element wound with low temperature coefficient wire.
- Resistance element card has thermal expansion coefficient similar to resistance wire eliminating breakage and strain gage effects.
- Excellent shock, vibration, and acceleration stability due to self-locking adjustment screw.

Actual Size



Panel Mount Model 200 available
with leads or solder lugs^①

STANDARD RESISTANCES

Resistance (ohms)	Part Numbers*			Nominal Resolution (percent)
	200L stranded insulated leads	200S solder lugs	200P printed circuit pins	
10	200L-1-100	200S-1-100	200P-1-100	2.70
20	200L-1-200	200S-1-200	200P-1-200	2.16
50	200L-1-500	200S-1-500	200P-1-500	1.65
100	200L-1-101	200S-1-101	200P-1-101	1.32
200	200L-1-201	200S-1-201	200P-1-201	1.06
500	200L-1-501	200S-1-501	200P-1-501	0.80
1,000	200L-1-102	200S-1-102	200P-1-102	0.64

SPECIAL RESISTANCES AVAILABLE FROM 10 OHMS TO 100K OHMS

^① When ordering Panel Mount Model add "M" to part number. Example: 200L-1-103M. See Panel Mount Bulletin for additional details.

Resistance (ohms)	Part Numbers*			Nominal Resolution (percent)
	200L stranded insulated leads	200S solder lugs	200P printed circuit pins	
2,000	200L-1-202	200S-1-202	200P-1-202	0.52
5,000	200L-1-502	200S-1-502	200P-1-502	0.41
10,000	200L-1-103	200S-1-103	200P-1-103	0.34
20,000	200L-1-203	200S-1-203	200P-1-203	0.29
25,000	200L-1-253	200S-1-253	200P-1-253	0.27
50,000	200L-1-503	200S-1-503	200P-1-503	0.22
100,000	200L-2-104	Not Available	Not Available	0.16

*The last three digits of the part number represent the resistance in standard code.

Model 200 TRIMPOT® Potentiometer

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Standard Resistance Range 10 ohms to 100,000 ohms
 Resistance Tolerance $\pm 10\%$ Standard, closer tolerances available
 Absolute Minimum Resistance
 100 Ω to 50K 0.7% or 1.0 Ω , whichever is greater
 100 K 5%
 Continuity Maintained for full mechanical range
 Noise During Adjustment 100 ohms ENR maximum
 Insulation Resistance, 500 Volts DC 100 megohms minimum
 Resolution (See chart on front) 0.16 to 2.70%

ENVIRONMENTAL CHARACTERISTICS

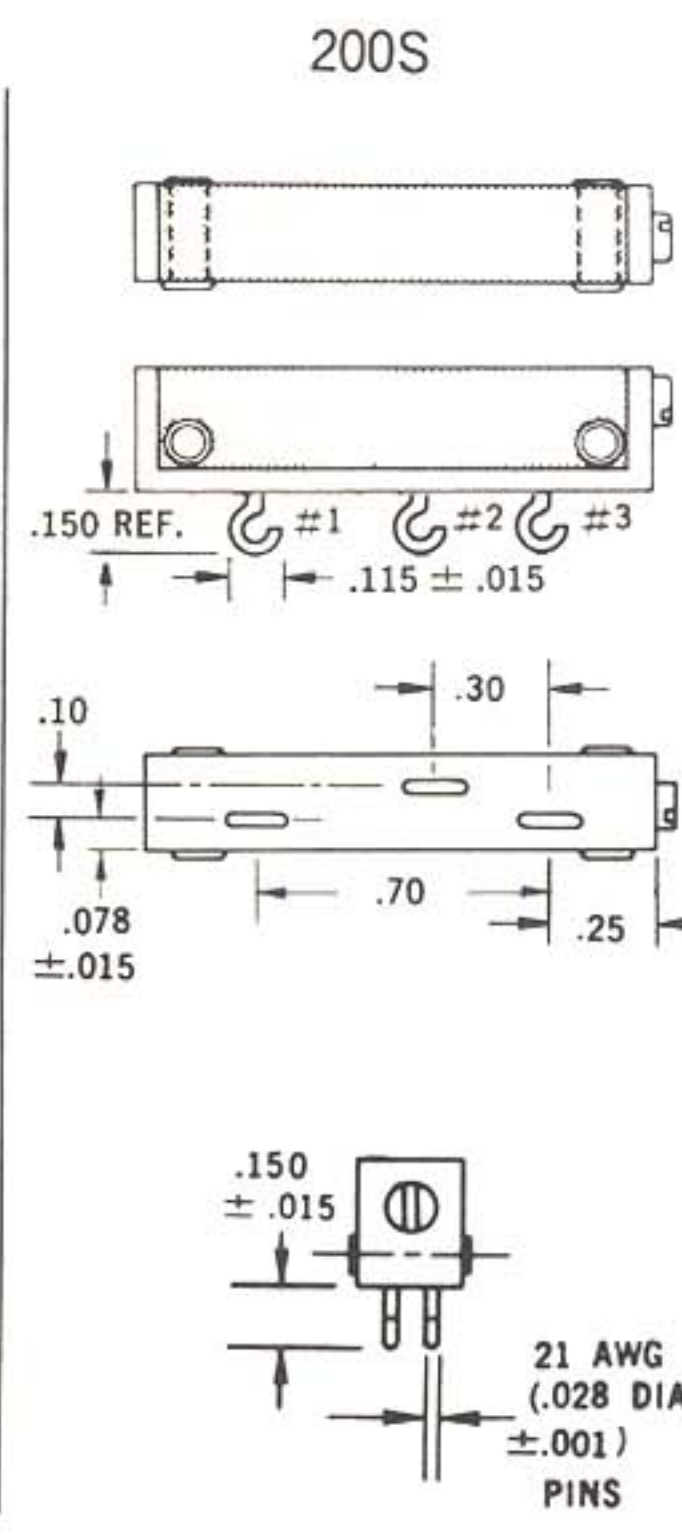
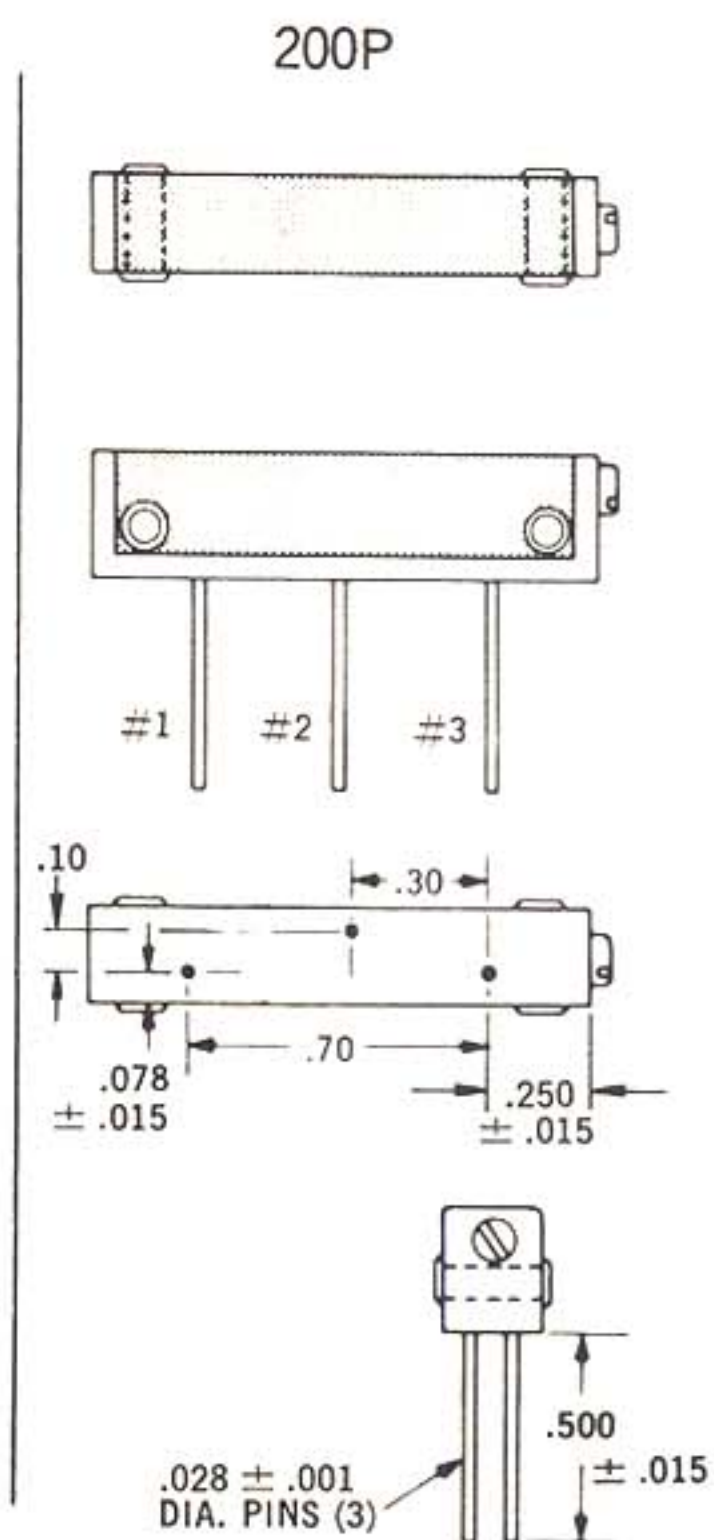
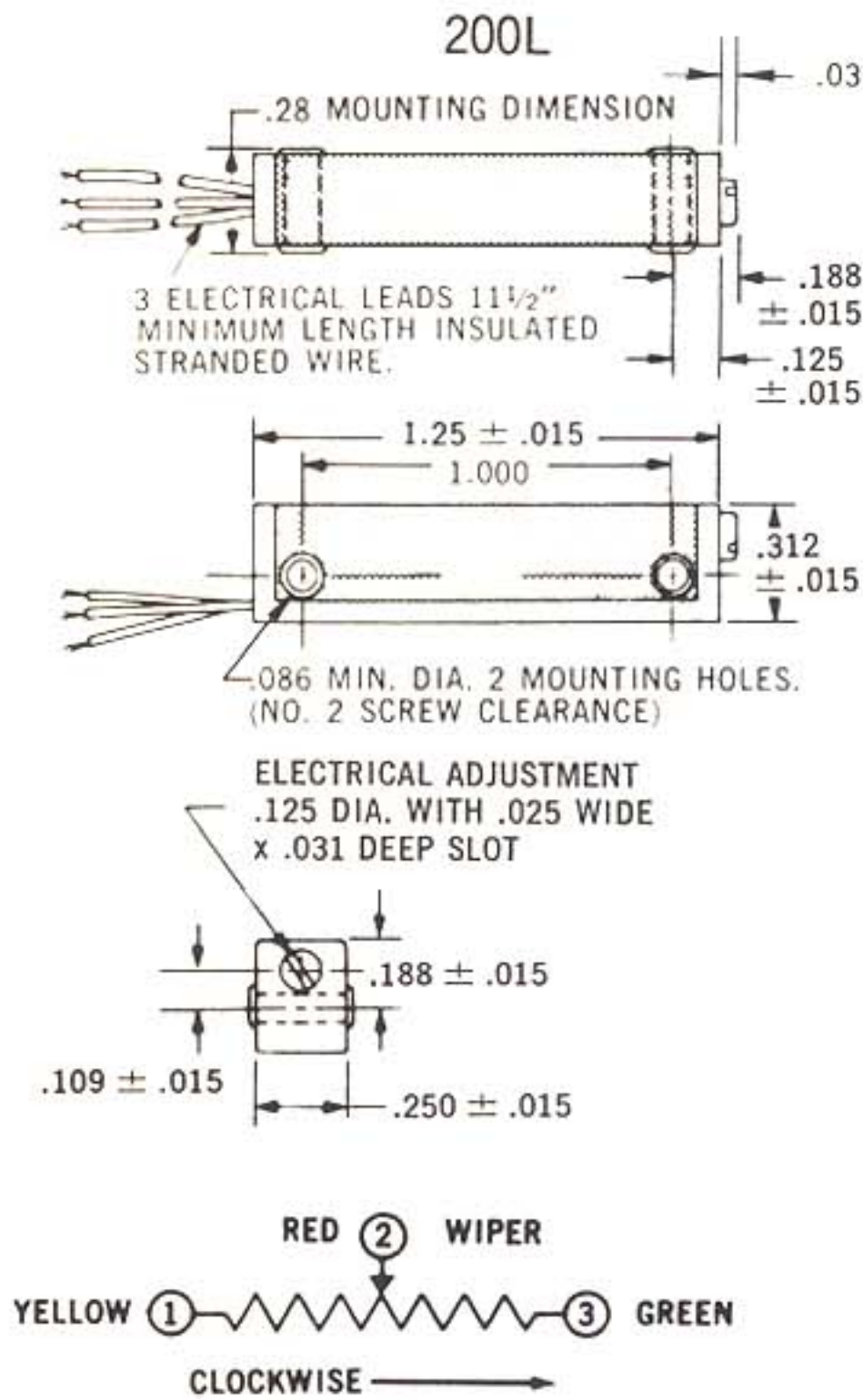
Power Ratings:
 70°C Ambient 0.50 watt
 125°C Ambient 0 watt
 Operating Temperature Range -65 to +105°C
 Temperature Coefficient (per MIL-R-27208) 100 ppm/°C maximum
 Humidity, MIL-STD-202, Method 103B 100 megohms minimum insulation resistance after removal from chamber
 Vibration: MIL-R-27208, 20G
 Contact Bounce 0.1 millisecond maximum
 Wiper Shift, Maximum 0.5% or resolution
 Shock: MIL-R-27208, 50G
 Contact Bounce and Wiper Shift Same as Vibration

Salt Spray Materials meet MIL-R-27208
 Load Life 1000 hours per MIL-R-27208
 Resistance Shift, Maximum 2%
 Mechanical Life 500 cycles without discontinuity
 Dielectric Strength MIL-R-27208
 Room Conditions 1000 volts AC
 80,000 Feet (0.8" Hg) 200 volts AC

PHYSICAL CHARACTERISTICS

Shaft Torque 7.5 oz.-in. maximum
 Markings Manufacturer's name, wiring diagram, date code, resistance and manufacturer's part number (customer's part number optional)
 Appearance Legible markings, no physical defects
 Mechanical Adjustment 25 turns nominal
 Mechanical Stops Wiper assembly idles
 Weight Approximately 0.1 oz.
 Terminals,
 L Vinyl insulated stranded leads, 30 AWG (0.024 O.D.) 7 strands/38 AWG
 S Solderable solder lugs
 P Solderable printed circuit pins

Specification Note: Closer performance tolerances can be supplied upon request.
 Specifications subject to change without notice.



METRIC CONVERSION

IN.	MM
.001	.025
.010	.254
.015	.381
.024	.610
.025	.635
.028	.711
.030	.762
.031	.787
.078	1,981
.086	2,189
.100	2,540
.109	2,769
.125	3,175
.188	4,775
.150	3,810
.250	6,350
.280	7,112
.300	7,620
.313	7,950
.500	12,700
.700	17,780
1.00	25,400
1.25	31,750
11.5	292,100

TOLERANCES: DECIMAL .XX±.010 .XXX±.005.

OBSOLETE

