BOURNS INC

# TRIMPOT® Potentiometer
## Model 260
## High Temperature
## Wirewound Element

Actual Size


260 L


260 S


260 P

Panel Mount Model 260 available with leads or solder lugs.①

## FEATURES

- High power dissipation — 1.0 watt at 70°C.
- High operating temperature (175°C).
- Excellent shock, vibration, and acceleration stability.
- Exceeds steady state humidity requirements of MIL-STD-202
- SILVERWELD® termination alloys with multiple resistance wire to eliminate vulnerable single wire termination.
- Stable wiper setting under extreme environmental conditions due to self-locking adjustment screw.
- Wiper assembly idles at both ends of travel preventing damage from forced adjustments.

OBSOLETE 1982

## STANDARD RESISTANCES

| Resistance (ohms) | Part Numbers* | | | Nominal Resolution (percent) |
|---|---|---|---|---|
| | 260L stranded insulated leads | 260S solder lugs | 260P printed circuit pins | |
| 10 | 260L-1-100 | 260S-1-100 | 260P-1-100 | 1.92 |
| 20 | 260L-1-200 | 260S-1-200 | 260P-1-200 | 1.47 |
| 50 | 260L-1-500 | 260S-1-500 | 260P-1-500 | 1.11 |
| 100 | 260L-1-101 | 260S-1-101 | 260P-1-101 | 0.84 |
| 200 | 260L-1-201 | 260S-1-201 | 260P-1-201 | 0.78 |
| 500 | 260L-1-501 | 260S-1-501 | 260P-1-501 | 0.77 |
| 1,000 | 260L-1-102 | 260S-1-102 | 260P-1-102 | 0.57 |
| 2,000 | 260L-1-202 | 260S-1-202 | 260P-1-202 | 0.46 |
| 5,000 | 260L-1-502 | 260S-1-502 | 260P-1-502 | 0.35 |
| 10,000 | 260L-1-103 | 260S-1-103 | 260P-1-103 | 0.29 |
| 20,000 | 260L-1-203 | 260S-1-203 | 260P-1-203 | 0.24 |
| 25,000 | 260L-1-253 | 260S-1-253 | 260P-1-253 | 0.22 |
| 50,000 | 260L-1-503 | 260S-1-503 | 260P-1-503 | 0.19 |
| 100,000 | 260L-1-104 | Not Available | Not Available | 0.17 |

SPECIAL RESISTANCES AVAILABLE FROM 10 TO 100,000 OHMS

① When ordering Panel Mount Model, add "M" to part number. Example: 260L-1-103M. See Panel Mount Bulletin for additional details.

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

# Model 260 TRIMPOT® Potentiometer

## SPECIFICATIONS

### ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| Standard Resistance Range (See chart on front) | 10 to 100,000 ohms |
| Resistance Tolerance | ±10% standard, closer tolerances available |
| Absolute Minimum Resistance | |
| 10 to 1,000 ohms | 0.2% or 0.5 ohm, whichever is greater |
| 2,000 to 50,000 ohms | 0.1% |
| 100,000 ohms | 5% |
| Continuity | Maintained for full mechanical range |
| Noise during Adjustment | 100 ohms ENR maximum |
| Insulation Resistance, 500 volts DC | 1,000 megohms minimum |
| Resolution (See chart on front) | 0.17 to 1.92% |

### ENVIRONMENTAL CHARACTERISTICS

| | |
|---|---|
| Power Ratings: | |
| 70°C | 1.0 watt |
| 125°C | 0.5 watt |
| 175°C | 0 watt |
| Operating Temperature Range | —55° to +175°C |
| Temperature Coefficient (per MIL-R-27208) | 50 ppm/°C maximum |
| Humidity, MIL-STD-202, Method 103 | 100 megohms minimum insulation resistance after removal from chamber |
| Vibration: | MIL-R-27208, 20Gs |
| Contact Bounce | 0.1 millisecond maximum |
| Wiper Shift, Maximum | 0.5% or resolution, whichever is greater |
| Shock: | MIL-R-27208, 50Gs |
| Contact Bounce and Wiper Shift | Same as vibration |
| Salt Spray | Materials meet MIL-R-27208 |
| Load Life | 1,000 hours per MIL-R-27208 |
| Resistance Shift, Maximum | 2% |
| Mechanical Life | 500 cycles without discontinuity |
| Dielectric Strength | MIL-R-27208 |
| Room Conditions | 1,000 volts AC |
| 80,000 Feet (0.8" Hg) | 200 volts AC |

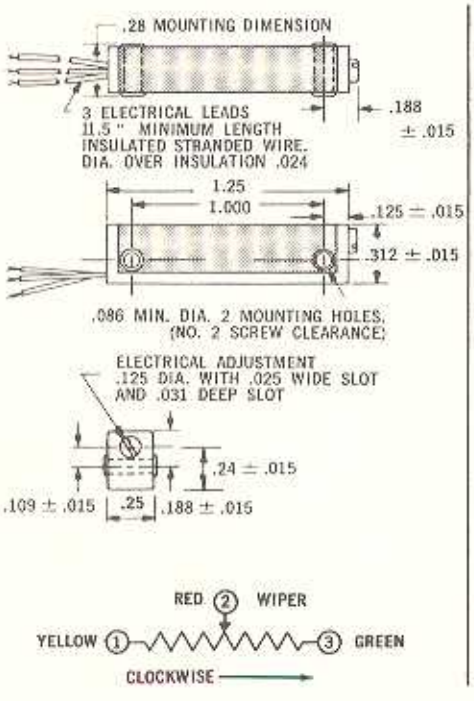
### PHYSICAL CHARACTERISTICS

| | |
|---|---|
| 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 | Teflon insulated stranded leads, 30 AWG (0.024 O.D.) 7 strands/38 AWG |
| S | Gold plated solder lugs |
| P | Gold plated grade A nickel printed circuit pins |

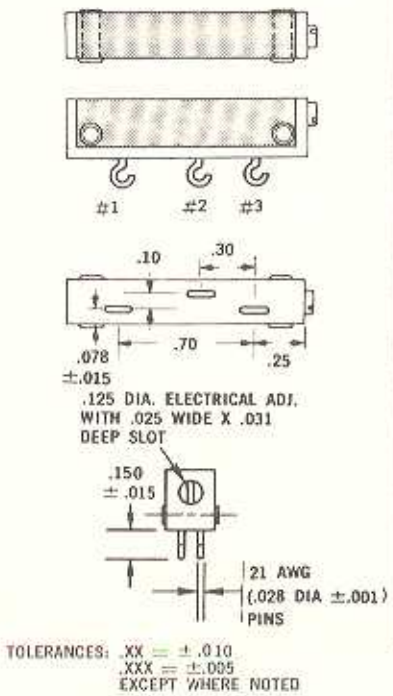
Specification Note: Closer performance tolerances can be supplied upon request.

Specifications are subject to change without notice.

260L

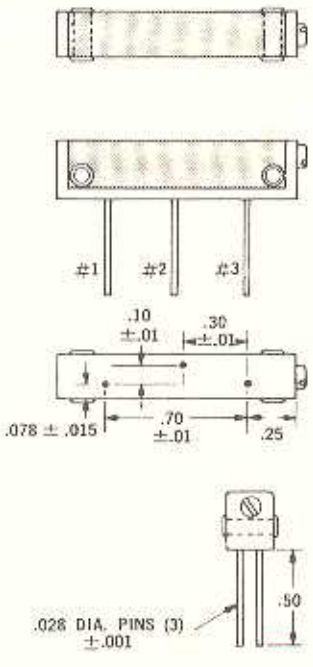



260S




TOLERANCES: .XX = ± .010
.XXX = ±.005
EXCEPT WHERE NOTED

260P

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