



TRIMPOT® Potentiometer
Model 3300
Humidity-Proof, Single Turn
Wirewound Element

OBSOLETE

FEATURES

- Smaller than transistor case — $\frac{5}{16}$ " diameter x $\frac{3}{16}$ ".
- High temperature operation (175°C).
- Outstanding mil spec humidity performances. Meets MIL-R-27208.
- Precious metal contacts eliminate noise.
- Excellent shock, vibration stability.
- SILVERWELD® termination alloys with multiple resistance wires eliminating vulnerable single wire termination.
- Stops provided at each end of travel.
- Lightweight, all-plastic case.

Actual Size



3300 S



3300 P



3300 W

STANDARD RESISTANCES

Resistance (ohms)	Part Numbers*			Nominal Resolution (Percent)
	3300S Solder Lugs	3300P Printed Circuit Pins	3300W Printed Circuit Pins (Side Adjust)	
10	3300S-1-100	3300P-1-100	3300W-1-100	1.51
20	3300S-1-200	3300P-1-200	3300W-1-200	1.18
50	3300S-1-500	3300P-1-500	3300W-1-500	0.89
100	3300S-1-101	3300P-1-101	3300W-1-101	0.70
200	3300S-1-201	3300P-1-201	3300W-1-201	0.78
500	3300S-1-501	3300P-1-501	3300W-1-501	0.65

SPECIAL RESISTANCES AVAILABLE FROM 10 TO 25,000 OHMS

Resistance (ohms)	Part Numbers*			Nominal Resolution (Percent)
	3300S Solder Lugs	3300P Printed Circuit Pins	3300W Printed Circuit Pins (Side Adjust)	
1,000	3300S-1-102	3300P-1-102	3300W-1-102	0.54
2,000	3300S-1-202	3300P-1-202	3300W-1-202	0.45
5,000	3300S-1-502	3300P-1-502	3300W-1-502	0.36
10,000	3300S-1-103	3300P-1-103	3300W-1-103	0.30
20,000	3300S-1-203	3300P-1-203	3300W-1-203	0.25
25,000	3300S-1-253	3300P-1-253	3300W-1-253	0.23

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

Model 3300 TRIMPOT® Potentiometer

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Standard Resistance Range	10 to 25,000 ohms
Resistance Tolerance*	±5% standard
Absolute Minimum Resistance*	0.5Ω or 1.0%, whichever is greater
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)*	0.23 to 1.51%
Effective Electrical Rotation	280 degrees nominal

ENVIRONMENTAL CHARACTERISTICS

Power Ratings:	
70°C Ambient	0.50 watt
110°C Ambient	0.25 watt
175°C Ambient	0 watt
Operating Temperature Range	-65° to +175°C
Temperature Coefficient (per MIL-R-27208)	50 ppm/°C maximum
Moisture Resistance:	
MIL-R-27208	100 megohms minimum insulation resistance after removal from chamber
Vibration	
Contact Bounce	MIL-R-27208, 30Gs
Wiper Shift, Maximum	0.1 millisecond maximum
Wiper Shift, Maximum	1.0% or resolution
Shock	
Contact Bounce and Wiper Shift	MIL-R-27208, 100Gs
Contact Bounce and Wiper Shift	Same as vibration

Sand and Dust	Meets MIL-E-5272, Procedure 1
Salt Spray	Meets MIL-R-27208
Fungus	Materials meet MIL-E-5272
Load Life	1,000 hours per MIL-R-27208
Resistance Shift, Maximum	2.0%
Mechanical Life	200 cycles without discontinuity
Dielectric Strength	
Room Conditions	MIL-R-27208
80,000 Feet (0.8" Hg)	1,000 volts AC
80,000 Feet (0.8" Hg)	400 volts AC

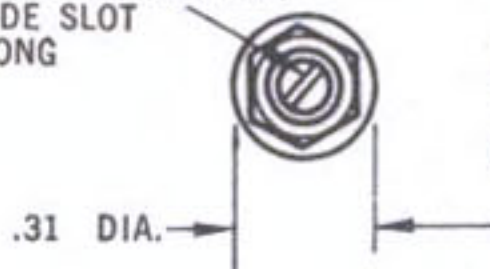
PHYSICAL CHARACTERISTICS

Immersion Leak Test*	No leaks
Shaft Torque*	5.0 oz.-in. maximum
Markings*	Manufacturer's name, resistance, date code, and manufacturer's part number
Appearance*	Legible markings, no physical defects
Mechanical Rotation	300 degrees nominal
Mechanical Stops	Solid
Stop Strength	6.0 oz.-in.
Weight	Approximately .02 oz.
Terminals:	
S	Gold plated solder lugs
P, W	Gold plated grade A nickel printed circuit pins
*Inspection Note: Applicable 100% or statistical sampling inspection performed to insure highest quality.	

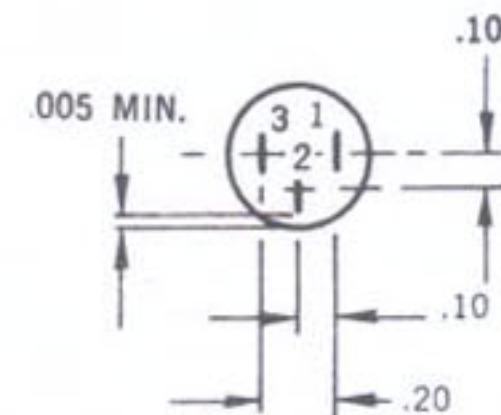
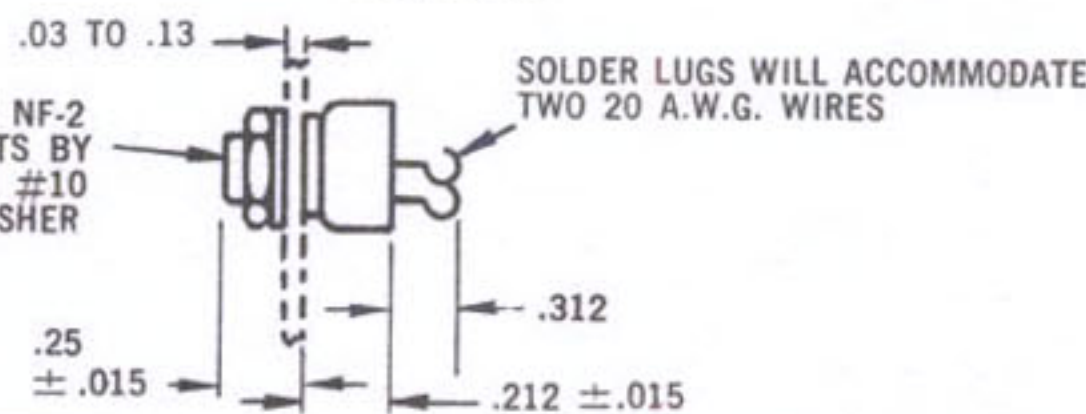
Specifications are subject to change without notice.

3300S

ELECTRICAL ADJUSTMENT
.025 WIDE SLOT
X .10 LONG

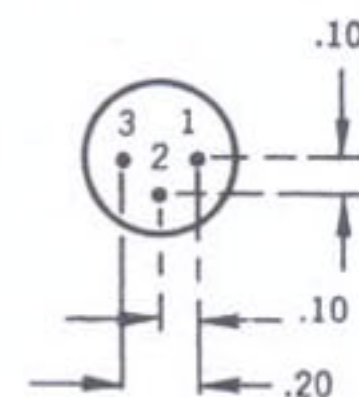
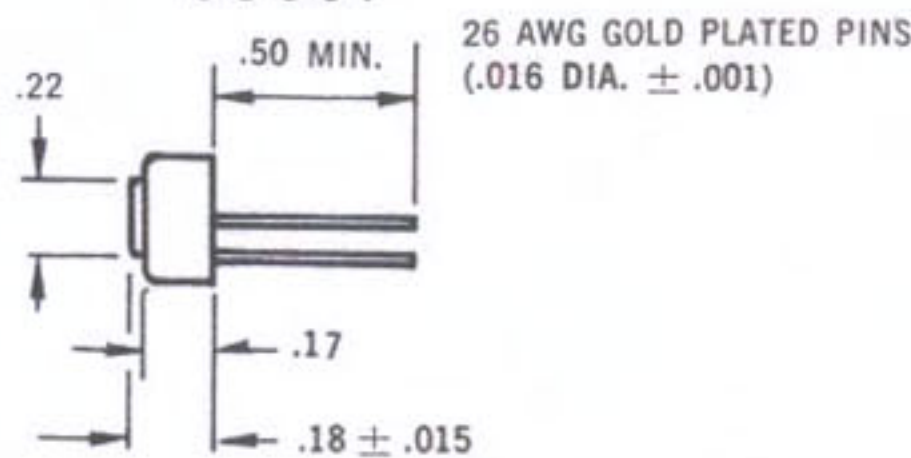
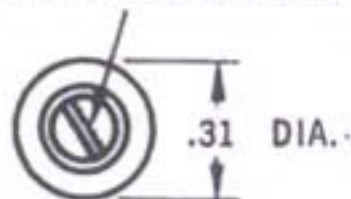


HEX NUT #10-32 NF-2
THREAD .25" FLATS BY
.073 THICK WITH #10
SPRING LOCK WASHER

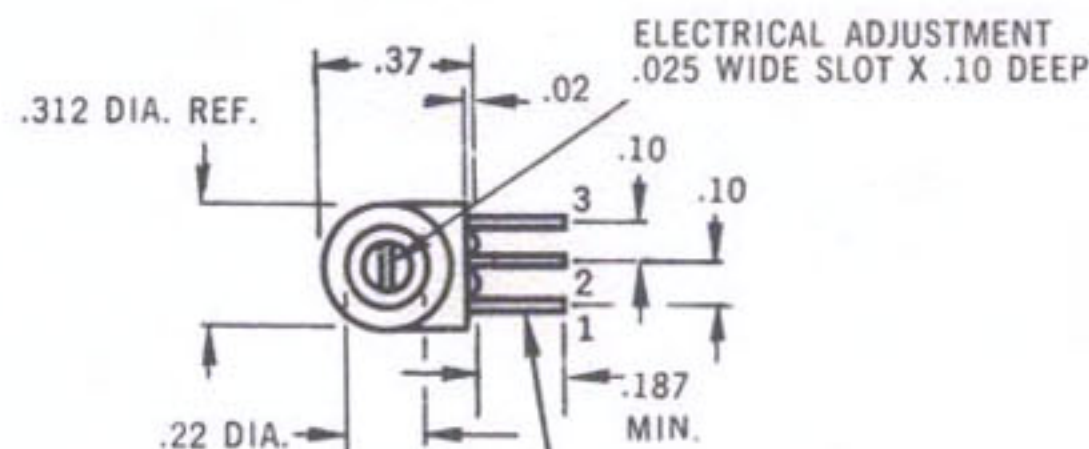
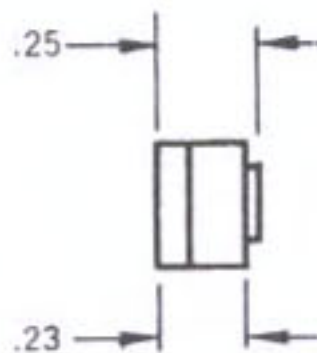


3300P

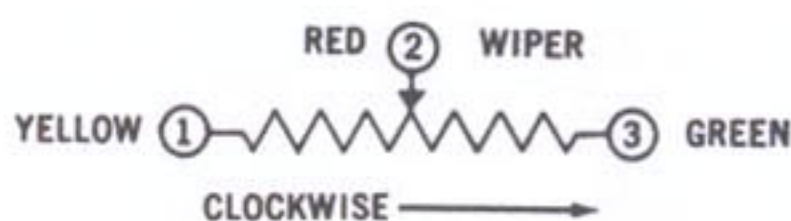
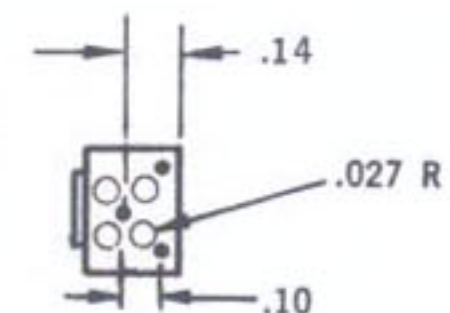
ELECTRICAL ADJUSTMENT
.025 WIDE SLOT X .10 LONG



3300W



26 AWG (.016 ± .001 DIA.) GOLD
PLATED GRADE A NICKEL



TOLERANCE: EXCEPT WHERE NOTED
DECIMALS: .XX ± .010
.XXX ± .005

OBSOLETE



BOURNS, INC., TRIMPOT PRODUCTS DIVISION
1200 COLUMBIA AVENUE, RIVERSIDE, CALIFORNIA 92507