



Model 3282
Industrial - Cermet - Potentiometer
3/8" Square

Actual Size



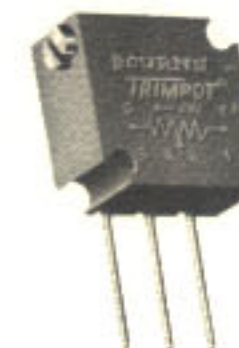
3282L



3282P



3282W



3282H

FEATURES

- 3/8" square case.
- Stable, infinite resolution, BOURNS® cermet element.
- Complete resistance range: 10 ohms to 1 megohm.
- High operating temperature (175°C).
- Low temperature coefficient $\pm 100\text{PPM}/^\circ\text{C}$.
- High power dissipation: .5 watt at 85°C.
- Meets applicable requirements of MIL-R-22097.
- Wiper assembly idles at both ends of travel preventing damage from forced adjustments.

OBSOLETE

STANDARD RESISTANCES

Resistance (ohms)	Part Numbers*			
	Stranded Insulated Leads (L)	Printed Circuit Pins (P)	Printed Circuit Pins (W)	Printed Circuit Pins (H)
10	3282L-1-100	3282P-1-100	3282W-1-100	3282H-1-100
20	3282L-1-200	3282P-1-200	3282W-1-200	3282H-1-200
50	3282L-1-500	3282P-1-500	3282W-1-500	3282H-1-500
100	3282L-1-101	3282P-1-101	3282W-1-101	3282H-1-101
200	3282L-1-201	3282P-1-201	3282W-1-201	3282H-1-201
500	3282L-1-501	3282P-1-501	3282W-1-501	3282H-1-501
1,000	3282L-1-102	3282P-1-102	3282W-1-102	3282H-1-102
2,000	3282L-1-202	3282P-1-202	3282W-1-202	3282H-1-202
5,000	3282L-1-502	3282P-1-502	3282W-1-502	3282H-1-502

Resistance (ohms)	Part Numbers*			
	Stranded Insulated Leads (L)	Printed Circuit Pins (P)	Printed Circuit Pins (W)	Printed Circuit Pins (H)
10,000	3282L-1-103	3282P-1-103	3282W-1-103	3282H-1-103
20,000	3282L-1-203	3282P-1-203	3282W-1-203	3282H-1-203
25,000	3282L-1-253	3282P-1-253	3282W-1-253	3282H-1-253
50,000	3282L-1-503	3282P-1-503	3282W-1-503	3282H-1-503
100,000	3282L-1-104	3282P-1-104	3282W-1-104	3282H-1-104
200,000	3282L-1-204	3282P-1-204	3282W-1-204	3282H-1-204
500,000	3282L-1-504	3282P-1-504	3282W-1-504	3282H-1-504
750,000	3282L-1-754	3282P-1-754	3282W-1-754	3282H-1-754
1,000,000	3282L-1-105	3282P-1-105	3282W-1-105	3282H-1-105

SPECIAL RESISTANCES AVAILABLE FROM 10 TO 1,000,000 OHMS

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

Model 3282 **BOURNS** TRIMPOT® Potentiometer

SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Standard Resistance Range	10 to 1,000,000 ohms
Resistance Tolerance	±10% standard, closer tolerances available
Absolute Minimum Resistance	0.1% or 1.0Ω, whichever is greater
Continuity	Maintained for full mechanical range
Insulation Resistance, 500 volts DC	1,000 megohms minimum
Contact Resistance Variation, Maximum	3 ohms or 3.0% whichever is greater

ENVIRONMENTAL CHARACTERISTICS

Power Ratings:	
85°C Ambient	0.5 watt or 400 volts maximum
175°C Ambient	0 watt
Operating Temperature Range	-65° to +175°C
Temperature Coefficient (per MIL-R-22097)	±100 ppm/°C maximum all resistances
Humidity	MIL-R-22097, 100 megohms minimum insulation resistance after removal from chamber
Vibration①	MIL-R-22097 30Gs
Contact Bounce	0.1 millisecond maximum
Wiper Shift, Maximum	1.0% voltage ratio
Shock	MIL-R-22097, 100Gs
Contact Bounce and Wiper Shift	Same as vibration
Salt Spray	Meets MIL-STD-202, Method 101
Load Life	1,000 hours per MIL-R-22097
Resistance Shift, Maximum	±3.0%

Mechanical Life	200 cycles without discontinuity
Dielectric Strength	MIL-R-22097
Room Conditions	1,000 volts AC
80,000 Fee (0.8" Hg)	400 volts AC

PHYSICAL CHARACTERISTICS

Immersion Leak Test	No leaks
Shaft Torque	5.0 oz.-in. maximum
Markings	Manufacturer's name, wiring diagram, date code, resistance, and manufacturer's part number (cus- tomer's part number optional)
Appearance	Legible markings, no physical defects
Mechanical Adjustment	25 turns nominal
Mechanical Stop	Wiper assembly idles
Weight	Approximately .03 oz.

Terminals:

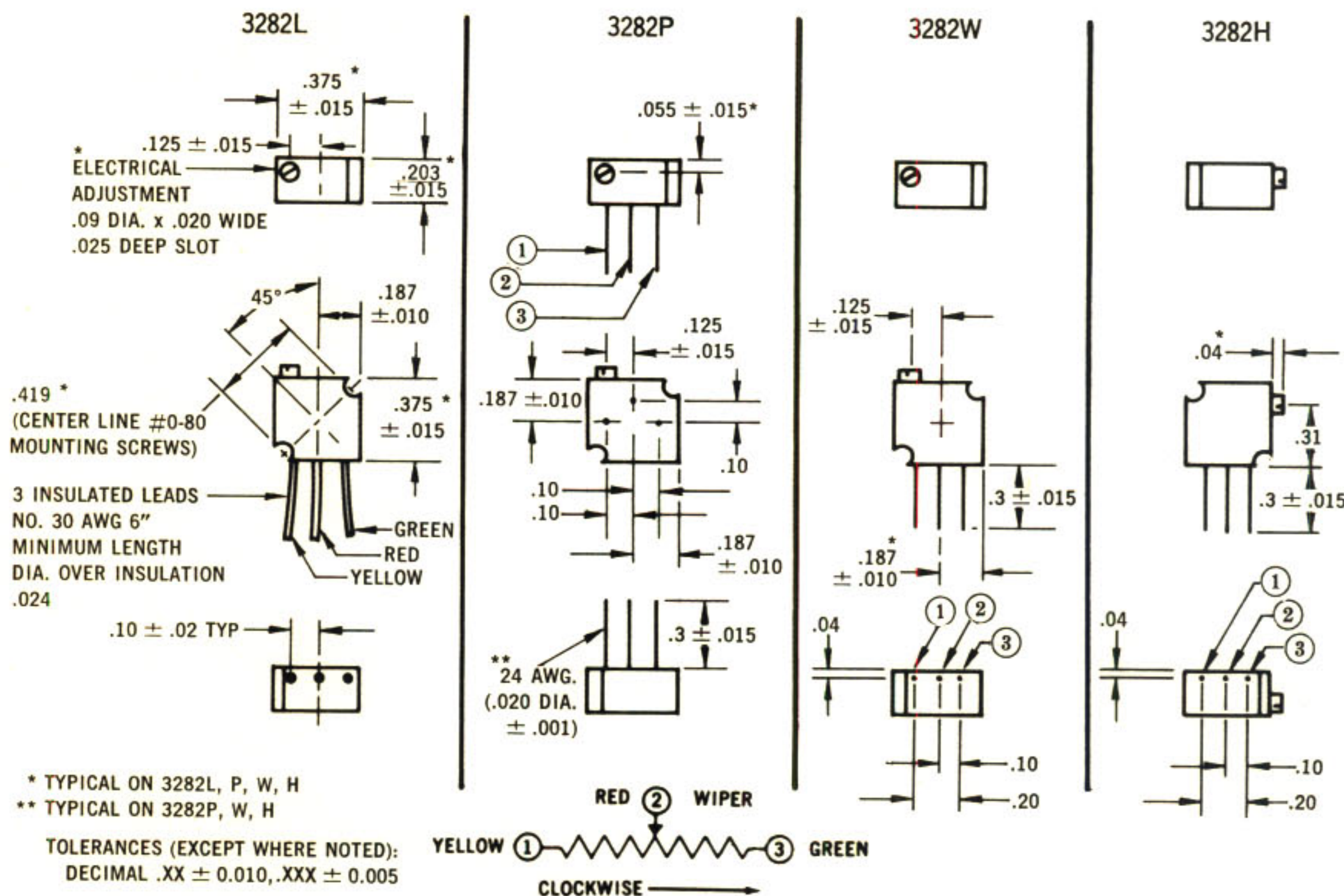
(L)	Teflon insulated stranded leads, 30 AWG (.024 O.D.) 7 strands/38 AWG
(P) (W) (H)	Solderable printed circuit pins

Mounting Mount by printed circuit pin or corner slots.

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

Specifications are subject to change without notice.

① When mounting the "W" or "H" version by the printed circuit pins, the vibration specification is 20G.



METRIC CONVERSION	
INCHES	MM
.005	0,127
.010	0,254
.015	0,381
.020	0,508
.022	0,559
.024	0,610
.025	0,635
.040	1,016
.055	1,397
.062	1,575
.070	1,778
.090	2,286
.100	2,540
.125	3,175
.187	4,750
.200	5,080
.203	5,156
.300	7,620
.310	7,874
.375	9,525
.419	10,643
6.000	152,400

* TYPICAL ON 3282L, P, W, H
** TYPICAL ON 3282P, W, H

TOLERANCES (EXCEPT WHERE NOTED):
DECIMAL .XX ± 0.010, .XXX ± 0.005

OBSOLETE

BOURNS

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