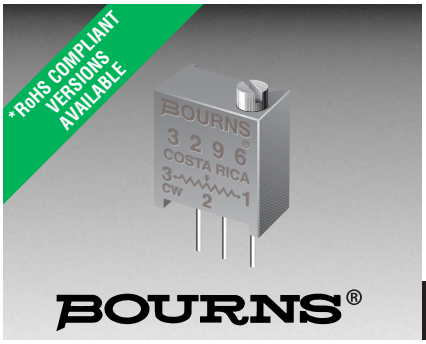


Features

- Multiturn / Cermet / Industrial / Sealed
- 5 terminal styles
- Tape and reel packaging available
- Chevron seal design
- Listed on the QPL for style RJ24 per MIL-R-22097 and RJR24 per High-Rel Mil-R-39035
- Mounting hardware available (H-117P)
- RoHS compliant* version available

3296 - 3/8 " Square Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range
.....10 ohms to 2 megohms
(see standard resistance table)
Resistance Tolerance .....±10 % std.
(tighter tolerance available)
Absolute Minimum Resistance
.....1 % or 2 ohms max.
(whichever is greater)
Contact Resistance Variation
.....1.0 % or 3 ohms max.
(whichever is greater)
Adjustability
Voltage.....±0.01 %
Resistance.....±0.05 %
Resolution.....Infinite
Insulation Resistance .....500 vdc.
1,000 megohms min.
Dielectric Strength
Sea Level .....900 vac
70,000 Feet.....350 vac
Effective Travel.....25 turns nom.

Environmental Characteristics

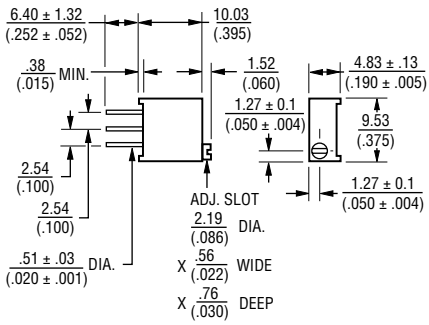
Power Rating (300 volts max.)
70 °C .....0.5 watt
125 °C .....0 watt
Temperature Range
.....-55 °C to +150 °C
Temperature Coefficient ....±100 ppm/°C
Seal Test.....85 °C Fluorinert†
Humidity.....MIL-STD-202 Method 103
96 hours
(2 % ΔTR, 10 Megohms IR)
Vibration.....20 G (1 % ΔTR; 1 % ΔVR)
Shock.....100 G (1 % ΔTR; 1 % ΔVR)
Load Life
.....1,000 hours 0.5 watt @ 70 °C
(3 % ΔTR; 3 % or 3 ohms,
whichever is greater, CRV)
Rotational Life.....200 cycles
(4 % ΔTR; 3 % or 3 ohms,
whichever is greater, CRV)

Physical Characteristics

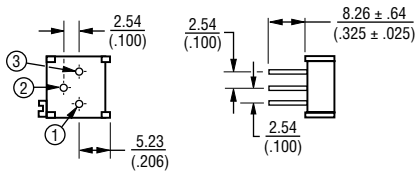
Torque .....3.0 oz-in. max.
Mechanical Stops.....Wiper idles
Terminals .....Solderable pins
Weight .....0.03 oz.
Marking .....Manufacturer's trademark, resistance code, wiring diagram, date code, manufacturer's model number and style
Wiper.....50 % (Actual TR) ±10 %
Flammability .....U.L. 94V-0
Standard Packaging .....50 pcs. per tube
Adjustment Tool H-90

Product Dimensions

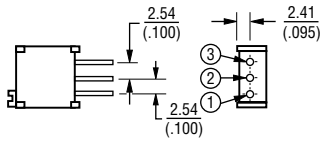
Common Dimensions



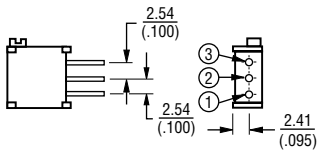
3296P



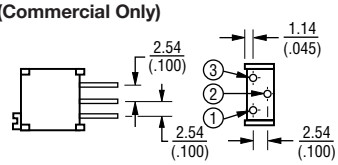
3296W



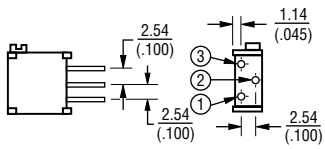
3296X

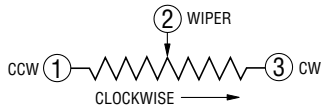


3296Y (Commercial Only)



3296Z (Commercial Only)





TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: MM / (INCHES)

How to Order

3296 W - 1 - 103 __ LF

Model
Style
Standard or Modified Product Indicator
-1 = Standard Product
Resistance Code
Packaging Designator
Blank = Tube (Standard)
R = Tape and Reel (X and W Pin Styles Only)
A = Ammo Pack (X and W Pin Styles Only)
Terminations
LF = 100 % Tin-plated (RoHS compliant)
Blank = 90 % Tin / 10 % Lead-plated (Standard)

Consult factory for other available options.

Standard Resistance Table

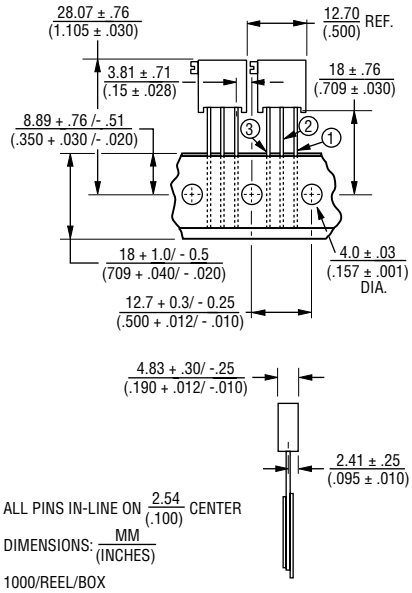
Resistance (Ohms)	Resistance Code
10	**100**
20	**200**
50	**500**
100	**101**
200	**201**
500	**501**
1,000	**102**
2,000	**202**
5,000	**502**
10,000	**103**
20,000	**203**
25,000	**253**
50,000	**503**
100,000	**104**
200,000	**204**
250,000	**254**
500,000	**504**
1,000,000	**105**
2,000,000	**205**

Popular values listed in boldface. Special resistances available.

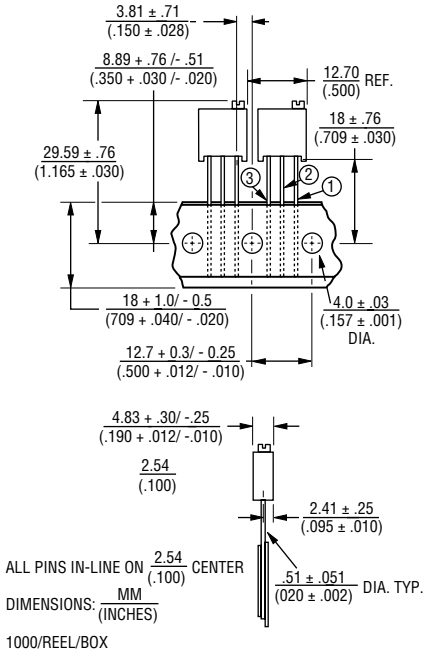
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
†"Fluorinert" is a registered trademark of 3M Co.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Packaging Specifications

SIDE ADJUST
3296X-1



TOP ADJUST
3296W-1



Meets EIA Specification 468.

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