

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)
- Lead free 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 %

ResolutionInfinite

Insulation Resistance500 vdc.
1,000 megohms min.

Dielectric Strength
Sea Level900 vac
70,000 Feet350 vac

Effective Travel25 turns nom.

Environmental Characteristics

Power Rating (300 volts max.)
70 °C0.5 watt
125 °C0 watt

Temperature Range
.....-55 °C to +150 °C

Temperature Coefficient±100 ppm/°C

Seal Test85 °C Fluorinert*

HumidityMIL-STD-202 Method 103
96 hours
(2 % ΔTR, 10 Megohms IR)

Vibration20 G (1 % ΔTR; 1 % ΔVR)

Shock100 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 Life200 cycles
(4 % ΔTR; 3 % or 3 ohms,
whichever is greater, CRV)

Physical Characteristics

Torque3.0 oz-in. max.

Mechanical StopsWiper idles

TerminalsSolderable pins

Weight0.03 oz.

MarkingManufacturer's
trademark, resistance code,
wiring diagram, date code,
manufacturer's model
number and style

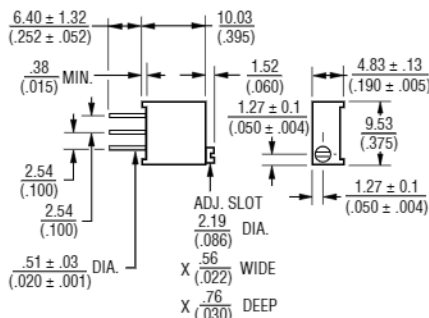
Wiper50 % ±10 %

FlammabilityU.L. 94V-0

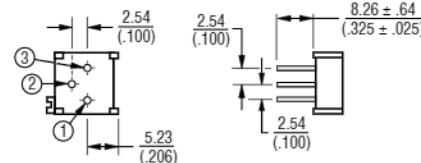
Standard Packaging50 pcs. per tube

Adjustment ToolH-90

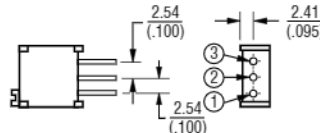
Common Dimensions



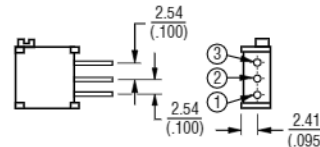
3296P



3296W



3296X



How to Order

3296 W - 1 - 103 LF

Model _____

Style _____

Standard or Modified
Product Indicator
-1 = Standard Product

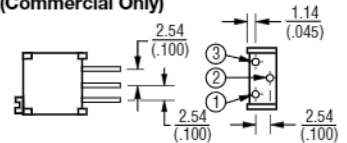
Resistance Code _____

Packaging Designator
Blank = Tube (Standard)
R = Tape and Reel (X and W Pin Styles
Only)
A = Ammo Pack (X and W Pin Styles Only)

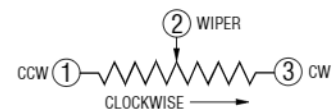
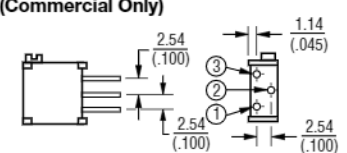
Terminations
LF = 100 % Tin-plated (lead free)
Blank = 90 % Tin / 10 % Lead-plated

Consult factory for other available options.

3296Y (Commercial Only)



3296Z (Commercial Only)



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: $\frac{\text{MM}}{(\text{INCHES})}$

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.

*"FLUORINERT" IS A REGISTERED TRADEMARK OF 3M CO.

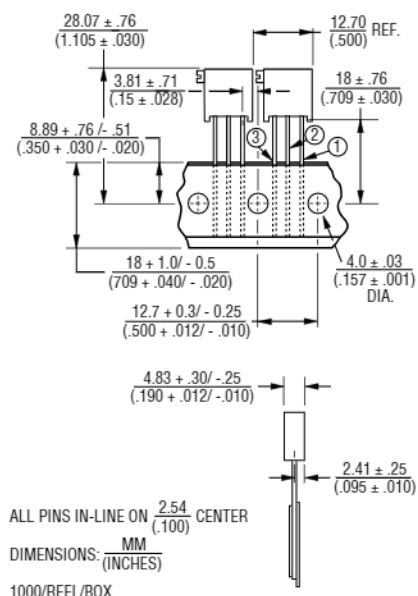
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

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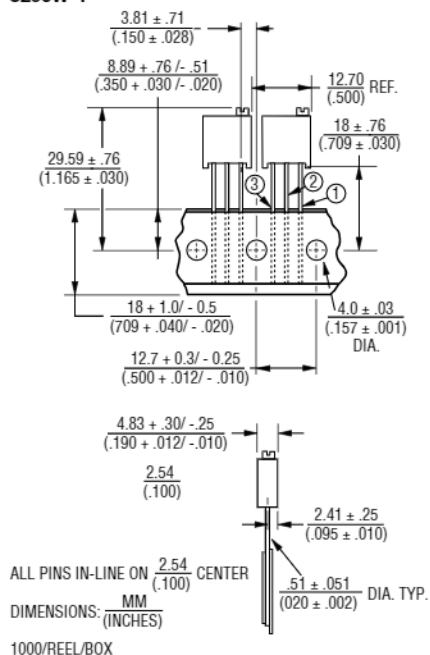
BOURNS®

Packaging Specifications

SIDE ADJUST 3296X-1



TOP ADJUST 3296W-1



Meets EIA Specification 468.