

Additional Information

Click these links for more information:



Electrical Characteristics

Standard Resistance Range
Resistance Tolerance±10 % std. (tighter tolerance available)
Absolute Minimum Resistance
(whichever is greater)
Contact Resistance Variation
(whichever is greater)
Adjustability
Voltage±0.01 %
Resistance±0.05 %
ResolutionInfinite
Insulation Resistance
1,000 megohms min.
Dielectric Strength
Sea Level
70,000 Feet350 vac
Effective Travel

Environmental Characteristics

Power Rating (300 volts max.)
70 °C0.5 watt
125 °C0 watt
Temperature Range55 °C to +125 °C
Temperature Coefficient±100 ppm/°C
Seal Test 85 °C Fluorinert†
Humidity MIL-STD-202 Method 103
96 hours
(2 % ∆TR, 10 Megohms IR)
Vibration 20 G (1 % ΔTR; 1 % ΔVR)
Shock 100 G (1 % ΔTR; 1 % ΔVR)
Load Life1,000 hours 0.5 watt @ 70 °C
(3 % ∆TR; 3 % or 3 ohms,
whichever is greater, CRV)
Rotational Life 200 cycles
(4 % ∆TR; 3 % or 3 ohms,
whichever is greater, CRV)
Moisture Sensitivity Level N/A
ESD Classification (HBM) 2

Physical Characteristics

,	
Torque	
Mechanical Stops	Wiper idles
Terminals	Solderable pins
Weight	0.03 oz.
Marking	Manufacturer's
trademark, re	esistance code, wiring
diagram, da	te code, mfr's. model
	number and style
Wiper50	% (Actual TR) ±10 %
Flammability	U.L. 94V-0
Standard Packaging	50 pcs. per tube
Adjustment Tool	H-90
Storage Condition	

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

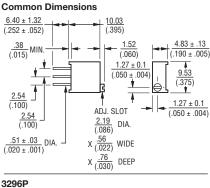
Mounting hardware available (H-117P)

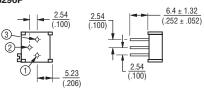
- RoHS compliant* version available
- For trimmer applications/processing guidelines, <u>click here</u>

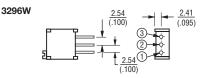
3296 - 3/8 " Square Trimpot® Trimming Potentiometer

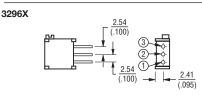
3296Y

Product Dimensions





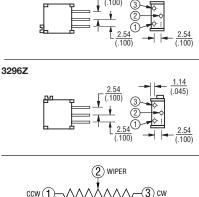




Standard Resistance Table

Resistance	Resistance
(Ohms)	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.

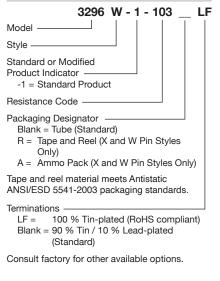


 $\frac{1.14}{(.045)}$





How To Order

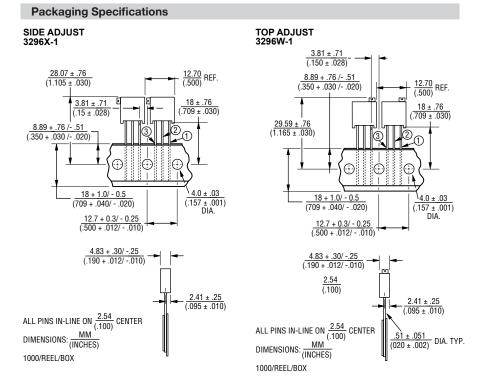




*RoHS Directive 2015/863, Mar. 31, 2015 and Annex "Trimpot" is a trademark of Bourns, Inc. †"Fluorinert" is a registered trademark of 3M Co. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

3296 - 3/8 " Square Trimpot® Trimming Potentiometer

BOURNS



Meets EIA Specification 468.

BOURNS

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com Europe: Tel: +36 88 885 877 • Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com www.bourns.com

Legal Disclaimer Notice

This legal disclaimer applies to purchasers and users of Bourns[®] products manufactured by or on behalf of Bourns, Inc. and its affiliates (collectively, "Bourns").

Unless otherwise expressly indicated in writing, Bourns[®] products and data sheets relating thereto are subject to change without notice. Users should check for and obtain the latest relevant information and verify that such information is current and complete before placing orders for Bourns[®] products.

The characteristics and parameters of a Bourns[®] product set forth in its data sheet are based on laboratory conditions, and statements regarding the suitability of products for certain types of applications are based on Bourns' knowledge of typical requirements in generic applications. The characteristics and parameters of a Bourns[®] product in a user application may vary from the data sheet characteristics and parameters due to (i) the combination of the Bourns[®] product with other components in the user's application, or (ii) the environment of the user application itself. The characteristics and parameters of a Bourns[®] product with other components of a Bourns[®] product also can and do vary in different applications and actual performance may vary over time. Users should always verify the actual performance of the Bourns[®] product in their specific devices and applications, and make their own independent judgments regarding the amount of additional test margin to design into their device or application to compensate for differences between laboratory and real world conditions.

Unless Bourns has explicitly designated an individual Bourns[®] product as meeting the requirements of a particular industry standard (e.g., ISO/TS 16949) or a particular qualification (e.g., UL listed or recognized), Bourns is not responsible for any failure of an individual Bourns[®] product to meet the requirements of such industry standard or particular qualification. Users of Bourns[®] products are responsible for ensuring compliance with safety-related requirements and standards applicable to their devices or applications.

Bourns[®] products are not recommended, authorized or intended for use in nuclear, lifesaving, life-critical or life-sustaining applications, nor in any other applications where failure or malfunction may result in personal injury, death, or severe property or environmental damage. Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any Bourns[®] products in such unauthorized applications might not be safe and thus is at the user's sole risk. Life-critical applications include devices identified by the U.S. Food and Drug Administration as Class III devices and generally equivalent classifications outside of the United States.

Bourns expressly identifies those Bourns[®] standard products that are suitable for use in automotive applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns[®] standard products in an automotive application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk. If Bourns expressly identifies a sub-category of automotive application in the data sheet for its standard products (such as infotainment or lighting), such identification means that Bourns has reviewed its standard product and has determined that if such Bourns[®] standard product is considered for potential use in automotive applications, it should only be used in such sub-category of automotive applications. Any reference to Bourns[®] standard product in the data sheet as compliant with the AEC-Q standard or "automotive grade" does not by itself mean that Bourns has approved such product for use in an automotive application.

Bourns[®] standard products are not tested to comply with United States Federal Aviation Administration standards generally or any other generally equivalent governmental organization standard applicable to products designed or manufactured for use in aircraft or space applications. Bourns expressly identifies Bourns[®] standard products that are suitable for use in aircraft or space applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns[®] standard product in an aircraft or space application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk.

The use and level of testing applicable to Bourns[®] custom products shall be negotiated on a case-by-case basis by Bourns and the user for which such Bourns[®] custom products are specially designed. Absent a written agreement between Bourns and the user regarding the use and level of such testing, the above provisions applicable to Bourns[®] standard products shall also apply to such Bourns[®] custom products.

Users shall not sell, transfer, export or re-export any Bourns[®] products or technology for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor shall they use Bourns[®] products or technology in any facility which engages in activities relating to such devices. The foregoing restrictions apply to all uses and applications that violate national or international prohibitions, including embargos or international regulations. Further, Bourns[®] products and Bourns technology and technical data may not under any circumstance be exported or re-exported to countries subject to international sanctions or embargoes. Bourns[®] products may not, without prior authorization from Bourns and/or the U.S. Government, be resold, transferred, or re-exported to any party not eligible to receive U.S. commodities, software, and technical data.

To the maximum extent permitted by applicable law, Bourns disclaims (i) any and all liability for special, punitive, consequential, incidental or indirect damages or lost revenues or lost profits, and (ii) any and all implied warranties, including implied warranties of fitness for particular purpose, non-infringement and merchantability.

For your convenience, copies of this Legal Disclaimer Notice with German, Spanish, Japanese, Traditional Chinese and Simplified Chinese bilingual versions are available at:

Web Page: <u>http://www.bourns.com/legal/disclaimers-terms-and-policies</u> PDF: <u>http://www.bourns.com/docs/Legal/disclaimer.pdf</u>

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

3296Z-1-205LF 3296Y-1-471LF 3296W-1-102ALF 3296Y-1-102LF 3296X-1-205LF 3296Y-1-201LF 3296W-1-254A 3296P-1-205LF 3296W-1-253A 3296W-1-253R 3296X-1-253R 3296X-1-203RLF 3296Y-1-205LF 3296X-1-201LF 3296P-1-201LF 3296W-1-201LF 3296X-1-503RLF 3296X-1-201RLF 3296Z-1-104LF 3296W-1-501LF 3296Y-1-223LF 3296X-1-505 3296Z-1-505 3296Z-1-501 3296Z-1-502 3296Y-1-501 3296Y-1-503 3296Z-1-503 3296X-1-503 3296X-1-501 3296Y-1-505 3296Z-1-504 3296Y-1-500 3296Z-1-500 3296X-1-500 3296Y-1-504 3296Y-1-504 3296Y-1-502 3296X-1-502 3296Z-1-504LF 3296W-1-500 3296W-1-502 3296P-1-501 3296P-1-505 3296W-1-503 3296W-1-501 3296W-1-505 3296Z-1-500 3296P-1-504 3296P-1-503 3296W-1-504 3296P-1-505 3296W-1-503 3296W-1-501 3296W-1-505 3296P-1-500 3296P-1-504 3296P-1-503 3296W-1-504 3296X-1-104RLF 3296P-1-470 3296W-1-472 3296W-1-474 3296W-1-473 3296W-1-471 3296Y-1-501LF 3296X-1-105ALF 3296X-1-505LF 3296W-1-253LF 3296X-1-502RLF 3296W-1-473 3296W-1-255LF 3296W-1-302LF 3296W-1-101ALF 3296P-1-104LF 3296Z-1-253LF 3296W-1-200LF 3296W-1-250LF 3296W-1-105R 3296W-1-107LF 3296Y-1-504LF 3296Y-1-500LF 3296X-1-504LF 3296W-1-103RLF 3296W-1-105A 3296W-1-105R 3296W-1-104R 3296W-1-102R 3296X-1-105A 3296X-1-504LF 3296X-1-102R 3296W-1-107LR 3296W-1-250LF 3296W-1-105A 3296W-1-202LF 3296W-1-102A 3296W-1-104A 3296X-1-204LF 3296X-1-102R 3296W-1-107LR 3296X-1-103R 3296W-1-103A 3296W-1-103R 3296W-1-101A 3296X-1-204LF 3296W-1-100A 3296W-1-107R 3296X-1-103R 3296W-1-103A 3296W-1-103R 3296W-1-101A 3296X-1-204LF 3296W-1-100A 3296W-1-100R 3296X-1-103R