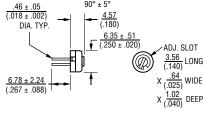


Features

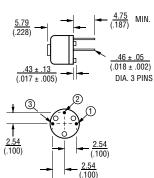
- 1/4 "Round / Single-turn / Cermet / Sealed
- Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
- Flammability: UL 94V-0
- RoHS compliant*
- For trimmer applications/processing guidelines, <u>click here</u>

PV32 Series – Lead Sealed Type Single-Turn Trimming Potentiometer

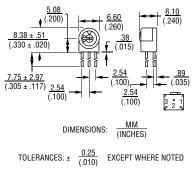
Product Dimensions PV32H $\frac{2.54}{(.100)}$ 2.54 45° REF. $\frac{2.54}{(.100)}$ $\frac{36}{(.015)}$ $\frac{36}{(.015)}$



PV32P

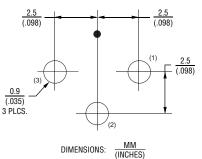


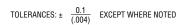
PV32N



Recommended PCB Layout PV32H 2.5 (.098) 0.9 (.035) 3 PLCS.

PV32P and PV32N





Schematic



Additional Information

Click these links for more information:

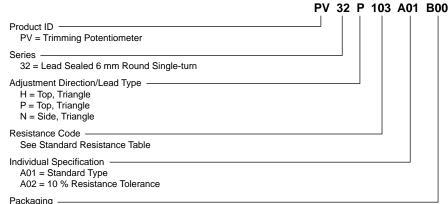


Standard Resistance Table

Resistance (Ohms)	Resistance Code		
10	100		
20	200		
50	500		
100	101		
200	201		
250	251		
500	501		
1,000	102		
2,000	202		
2,500	252		
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		

Popular distribution values listed in **boldface**. Special resistances available.

How To Order



B00 = Tube (50 pcs. per tube)

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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.

PV32 Series – Lead Sealed Type Single-Turn Trimming Potentiometer OURNS

Top Adjustment

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Mechanical Rotation Angle	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PV32H100A0xB00		1 (240 ° ±5 °)	260 ° ±5 °	10	±20 %	±100
PV32H200A0xB00				20		
PV32H500A0xB00				50		
PV32H101A0xB00				100		
PV32H201A0xB00				200		
PV32H251A0xB00				250		
PV32H501A0xB00				500		
PV32H102A0xB00				1k		
PV32H202A0xB00				2k		
PV32H252A0xB00				2.5k		
PV32H502A0xB00	- 0.5			5k		
PV32H103A0xB00				10k		
PV32H203A0xB00				20k		
PV32H253A0xB00				25k		
PV32H503A0xB00				50k		
PV32H104A0xB00				100k		
PV32H204A0xB00				200k		
PV32H254A0xB00				250k		
PV32H504A0xB00				500k		
PV32H105A0xB00				1M		

Operating Temperature Range: -55 to 125 $^{\circ}\mathrm{C}$

Soldering Method: Wave (Single and Dual)

Typical Part Marking

3-Digit Date Code and Manufacturing Code

- First digit indicates year of manufacture;
- Last two digits indicate week of manufacture;
- 4th digit is suffix for manufacturing location:

C = Costa Rica

EX: 604C = Manufactured in 2016, week 4, Costa Rica

Resistance Code

- Resistance code marking as shown in the Standard Resistance Table.

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 <u>www.bourns.com/docs/legal/disclaimer.pdf</u>.

PV32 Series – Lead Sealed Type Single-Turn Trimming Potentiometer BOURNS

Top Adjustment (Continued)

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Mechanical Rotation Angle	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PV32P100A0xB00	-	1 (240 ° ±5 °)	260 ° ±5 °	10	±20 %	±100
PV32P200A0xB00				20		
PV32P500A0xB00				50		
PV32P101A0xB00				100		
PV32P201A0xB00				200		
PV32P251A0xB00				250		
PV32P501A0xB00				500		
PV32P102A0xB00				1k		
PV32P202A0xB00				2k		
PV32P252A0xB00				2.5k		
PV32P502A0xB00	0.5			5k		
PV32P103A0xB00				10k		
PV32P203A0xB00				20k		
PV32P253A0xB00				25k		
PV32P503A0xB00				50k		
PV32P104A0xB00				100k		
PV32P204A0xB00				200k		
PV32P254A0xB00				250k		
PV32P504A0xB00				500k		
PV32P105A0xB00				1M		

Operating Temperature Range: -55 to 125 °C

Soldering Method: Wave (Single and Dual)

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 <u>www.bourns.com/docs/legal/disclaimer.pdf</u>.

PV32 Series – Lead Sealed Type Single-Turn Trimming Potentiometer **OURNS**®

Side Adjustment

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Mechanical Rotation Angle	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PV32N100A0xB00		1 (240 ° ±5 °)		10	±20 %	±100
PV32N200A0xB00				20		
PV32N500A0xB00]			50		
PV32N101A0xB00]			100		
PV32N201A0xB00				200		
PV32N251A0xB00				250		
PV32N501A0xB00				500		
PV32N102A0xB00				1k		
PV32N202A0xB00			260 ° ±5 °	2k		
PV32N252A0xB00	-			2.5k		
PV32N502A0xB00	0.5			5k		
PV32N103A0xB00	-			10k		
PV32N203A0xB00				20k		
PV32N253A0xB00				25k		
PV32N503A0xB00				50k		
PV32N104A0xB00				100k		
PV32N204A0xB00				200k		
PV32N254A0xB00				250k		
PV32N504A0xB00				500k		
PV32N105A0xB00				1M		

Operating Temperature Range: -55 to 125 °C

Soldering Method: Wave (Single and Dual)



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

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 <u>www.bourns.com/docs/legal/disclaimer.pdf</u>.

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 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, it should only be used in such sub-category of automotive applications 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: http://www.bourns.com/docs/Legal/disclaimer.pdf