



**THE DATASHEET OF
PVG5H104C03R00**



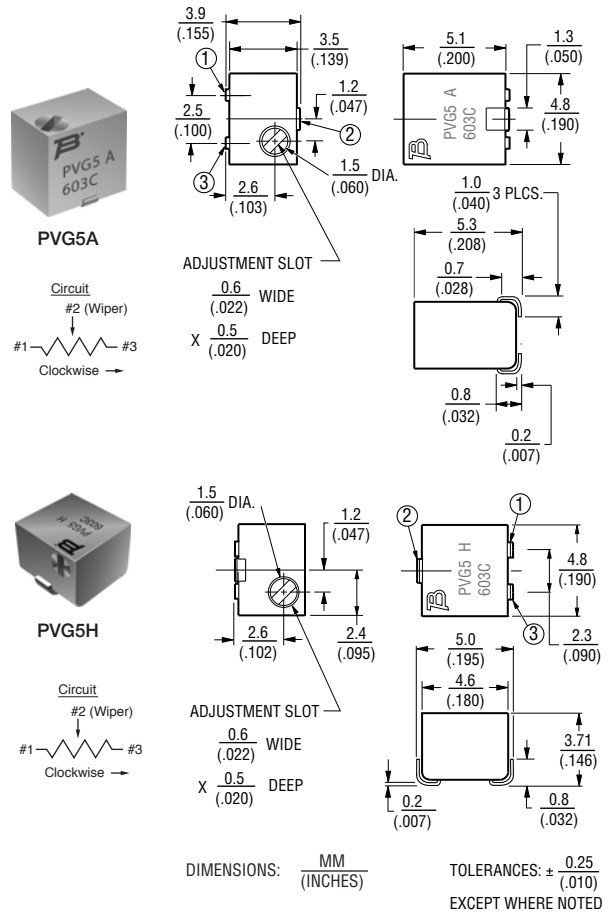
Trimmer Potentiometers



SMD Sealed Type Multiturn PVG5 Series

■ Features

1. Surface Mount 5 mm Square / Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
4. 5 mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
5. RoHS compliant*
6. For trimmer applications/processing guidelines, [click here](#)



Top Adjustment

Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG5A100C03R00	0.25 (70 °C)	12	10 ohm ±10%	±150
PVG5A200C03R00	0.25 (70 °C)	12	20 ohm ±10%	±150
PVG5A500C03R00	0.25 (70 °C)	12	50 ohm ±10%	±150
PVG5A101C03R00	0.25 (70 °C)	12	100 ohm ±10%	±150
PVG5A201C03R00	0.25 (70 °C)	12	200 ohm ±10%	±150
PVG5A501C03R00	0.25 (70 °C)	12	500 ohm ±10%	±150
PVG5A102C03R00	0.25 (70 °C)	12	1k ohm ±10%	±150
PVG5A202C03R00	0.25 (70 °C)	12	2k ohm ±10%	±150
PVG5A502C03R00	0.25 (70 °C)	12	5k ohm ±10%	±150
PVG5A103C03R00	0.25 (70 °C)	12	10k ohm ±10%	±150
PVG5A203C03R00	0.25 (70 °C)	12	20k ohm ±10%	±150
PVG5A503C03R00	0.25 (70 °C)	12	50k ohm ±10%	±150
PVG5A104C03R00	0.25 (70 °C)	12	100k ohm ±10%	±150
PVG5A204C03R00	0.25 (70 °C)	12	200k ohm ±10%	±150
PVG5A504C03R00	0.25 (70 °C)	12	500k ohm ±10%	±150
PVG5A105C03R00	0.25 (70 °C)	12	1M ohm ±10%	±150
PVG5A205C03R00	0.25 (70 °C)	12	2M ohm ±10%	±150

Operating Temperature Range: -55 to +125 °C

Soldering Method: Forced Hot Air, Convection, IR, Vapor Phase (In-Line)



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

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. 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.

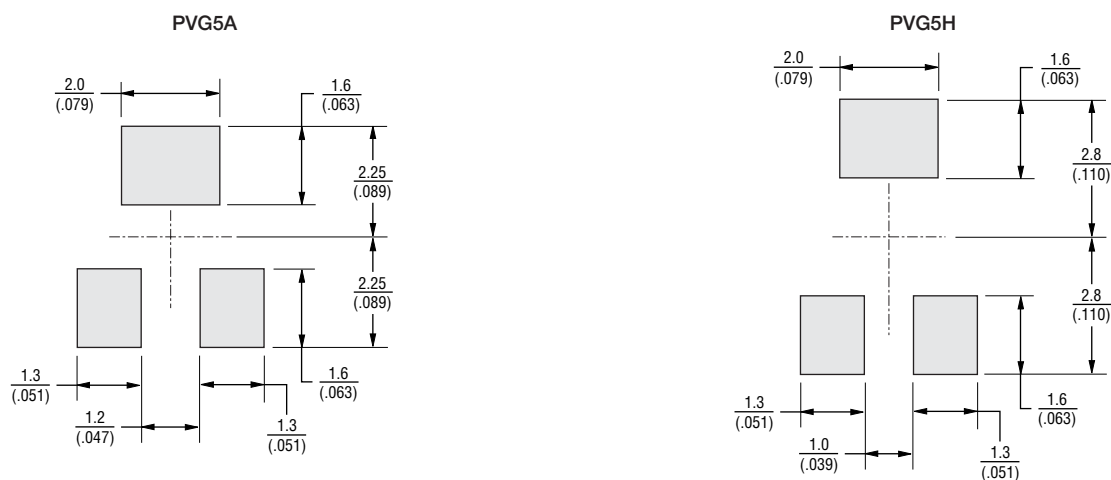
Side Adjustment

Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG5H100C03B00	0.25 (70 °C)	12	10 ohm ±10%	±150
PVG5H200C03B00	0.25 (70 °C)	12	20 ohm ±10%	±150
PVG5H500C03B00	0.25 (70 °C)	12	50 ohm ±10%	±150
PVG5H101C03B00	0.25 (70 °C)	12	100 ohm ±10%	±150
PVG5H201C03B00	0.25 (70 °C)	12	200 ohm ±10%	±150
PVG5H501C03B00	0.25 (70 °C)	12	500 ohm ±10%	±150
PVG5H102C03B00	0.25 (70 °C)	12	1k ohm ±10%	±150
PVG5H202C03B00	0.25 (70 °C)	12	2k ohm ±10%	±150
PVG5H502C03B00	0.25 (70 °C)	12	5k ohm ±10%	±150
PVG5H103C03B00	0.25 (70 °C)	12	10k ohm ±10%	±150
PVG5H203C03B00	0.25 (70 °C)	12	20k ohm ±10%	±150
PVG5H503C03B00	0.25 (70 °C)	12	50k ohm ±10%	±150
PVG5H104C03B00	0.25 (70 °C)	12	100k ohm ±10%	±150
PVG5H204C03B00	0.25 (70 °C)	12	200k ohm ±10%	±150
PVG5H504C03B00	0.25 (70 °C)	12	500k ohm ±10%	±150
PVG5H105C03B00	0.25 (70 °C)	12	1M ohm ±10%	±150
PVG5H205C03B00	0.25 (70 °C)	12	2M ohm ±10%	±150

Operating Temperature Range: -55 to +125 °C

Soldering Method: Forced Hot Air, Convection, IR, Vapor Phase (In-Line)

Standard Land Pattern



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

TOLERANCES: $\pm \frac{0.1}{(.004)}$
EXCEPT WHERE NOTED

BOURNS®

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.

■ Characteristics

Temperature Cycle	ΔTR : $\pm 2\%$ $\Delta V.S.S.$: $\pm 1\%$
Humidity	ΔTR : $\pm 2\%$ IR : 10M ohm min.
Vibration (20G)	ΔTR : $\pm 1\%$ $\Delta V.S.S.$: $\pm 1\%$
Shock (100G)	ΔTR : $\pm 1\%$ $\Delta V.S.S.$: $\pm 1\%$
Temperature Load Life	ΔTR : $\pm 3\%$ or 3 ohm max., whichever is greater $\Delta V.S.S.$: $\pm 1\%$
Low Temperature Exposure	ΔTR : $\pm 1\%$ $\Delta V.S.S.$: $\pm 1\%$
High Temperature Exposure	ΔTR : $\pm 2\%$ $\Delta V.S.S.$: $\pm 1\%$
Rotational Life	ΔTR : $\pm 3\%$ or 3 ohm max., whichever is greater (100 cycles)

ΔTR : Total Resistance Change
 $\Delta V.S.S.$: Voltage Setting Stability
IR : Insulation Resistance

■ 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

Example:

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

Resistance Code

- Resistance code marking as shown in the *Part Numbering Resistance Table*.

■ Part Numbering

Product ID _____ **PV G5 A 103 C03 B00**
 PV = Trimming Potentiometer
 Series _____
 G5 = SMD Sealed 5 mm Square, 12-Turns
 Adjustment Direction/Lead Type _____
 A = Top
 H = Side
 Total Resistance _____
 Expressed by three figures.
 The first and second figures are significant digits; the third figure expresses the number of zeros that follow.

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
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105
2,000,000	205

Popular distribution values listed in boldface.
Special resistances available.

Individual Specification _____
 C03 = Standard Type

Packaging _____
 B00 = Tube (50 pcs. per tube)
 R00 = 7" Reel (250 pcs. per reel) - Style A
 7" Reel (500 pcs. per reel) - Style H

BOURNS®

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.

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. 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: <http://www.bourns.com/legal/disclaimers-terms-and-policies>

PDF: <http://www.bourns.com/docs/Legal/disclaimer.pdf>

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View PVG5H104C03R00 on WIN SOURCE](#)

 [Bourns Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management