



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Trimmer Potentiometers



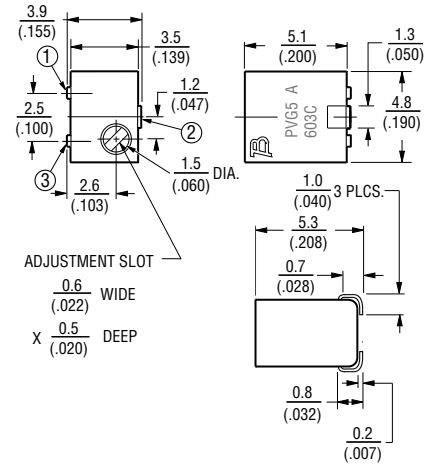
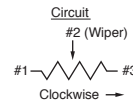
## SMD Sealed Type Multiturn PVG5 Series

### Features

1. Surface Mount 5 mm Square / Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. 5 mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
4. RoHS compliant\*
5. For trimmer applications/processing guidelines, [click here](#)



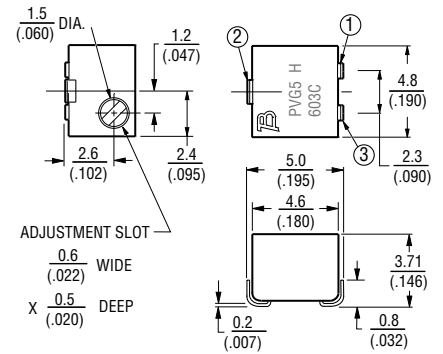
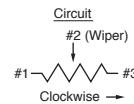
PVG5A



ADJUSTMENT SLOT  
0.6 (.022) WIDE  
X 0.5 (.020) DEEP



PVG5H



ADJUSTMENT SLOT  
0.6 (.022) WIDE  
X 0.5 (.020) DEEP

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

TOLERANCES:  $\pm \frac{0.25}{(.010)}$   
EXCEPT WHERE NOTED

### Top Adjustment

Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG5A100C03R00	0.25 (70 °C)	11	10 ohm ±10%	±150
PVG5A200C03R00	0.25 (70 °C)	11	20 ohm ±10%	±150
PVG5A500C03R00	0.25 (70 °C)	11	50 ohm ±10%	±150
PVG5A101C03R00	0.25 (70 °C)	11	100 ohm ±10%	±150
PVG5A201C03R00	0.25 (70 °C)	11	200 ohm ±10%	±150
PVG5A501C03R00	0.25 (70 °C)	11	500 ohm ±10%	±150
PVG5A102C03R00	0.25 (70 °C)	11	1k ohm ±10%	±150
PVG5A202C03R00	0.25 (70 °C)	11	2k ohm ±10%	±150
PVG5A502C03R00	0.25 (70 °C)	11	5k ohm ±10%	±150
PVG5A103C03R00	0.25 (70 °C)	11	10k ohm ±10%	±150
PVG5A203C03R00	0.25 (70 °C)	11	20k ohm ±10%	±150
PVG5A503C03R00	0.25 (70 °C)	11	50k ohm ±10%	±150
PVG5A104C03R00	0.25 (70 °C)	11	100k ohm ±10%	±150
PVG5A204C03R00	0.25 (70 °C)	11	200k ohm ±10%	±150
PVG5A504C03R00	0.25 (70 °C)	11	500k ohm ±10%	±150
PVG5A105C03R00	0.25 (70 °C)	11	1M ohm ±10%	±150
PVG5A205C03R00	0.25 (70 °C)	11	2M ohm ±10%	±150

Operating Temperature Range: -55 to +125 °C

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



\*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.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

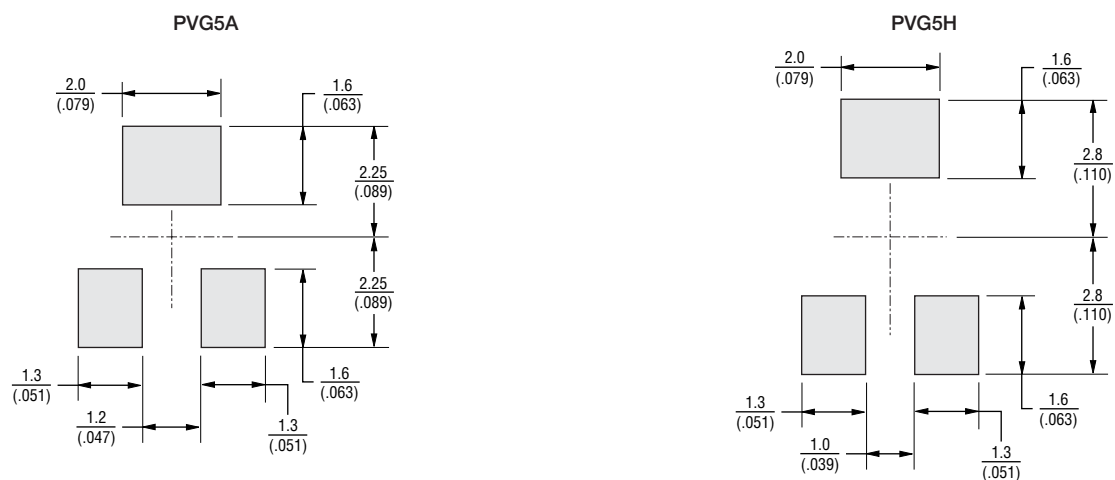
## Side Adjustment

Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG5H100C03B00	0.25 (70 °C)	11	10 ohm ±10%	±150
PVG5H200C03B00	0.25 (70 °C)	11	20 ohm ±10%	±150
PVG5H500C03B00	0.25 (70 °C)	11	50 ohm ±10%	±150
PVG5H101C03B00	0.25 (70 °C)	11	100 ohm ±10%	±150
PVG5H201C03B00	0.25 (70 °C)	11	200 ohm ±10%	±150
PVG5H501C03B00	0.25 (70 °C)	11	500 ohm ±10%	±150
PVG5H102C03B00	0.25 (70 °C)	11	1k ohm ±10%	±150
PVG5H202C03B00	0.25 (70 °C)	11	2k ohm ±10%	±150
PVG5H502C03B00	0.25 (70 °C)	11	5k ohm ±10%	±150
PVG5H103C03B00	0.25 (70 °C)	11	10k ohm ±10%	±150
PVG5H203C03B00	0.25 (70 °C)	11	20k ohm ±10%	±150
PVG5H503C03B00	0.25 (70 °C)	11	50k ohm ±10%	±150
PVG5H104C03B00	0.25 (70 °C)	11	100k ohm ±10%	±150
PVG5H204C03B00	0.25 (70 °C)	11	200k ohm ±10%	±150
PVG5H504C03B00	0.25 (70 °C)	11	500k ohm ±10%	±150
PVG5H105C03B00	0.25 (70 °C)	11	1M ohm ±10%	±150
PVG5H205C03B00	0.25 (70 °C)	11	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

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Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

## ■ Characteristics

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

$\Delta TR$  : 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, 11-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
<b>100</b>	<b>101</b>
<b>200</b>	<b>201</b>
<b>500</b>	<b>501</b>
<b>1,000</b>	<b>102</b>
<b>2,000</b>	<b>202</b>
<b>5,000</b>	<b>502</b>
<b>10,000</b>	<b>103</b>
<b>20,000</b>	<b>203</b>
<b>50,000</b>	<b>503</b>
<b>100,000</b>	<b>104</b>
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

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