

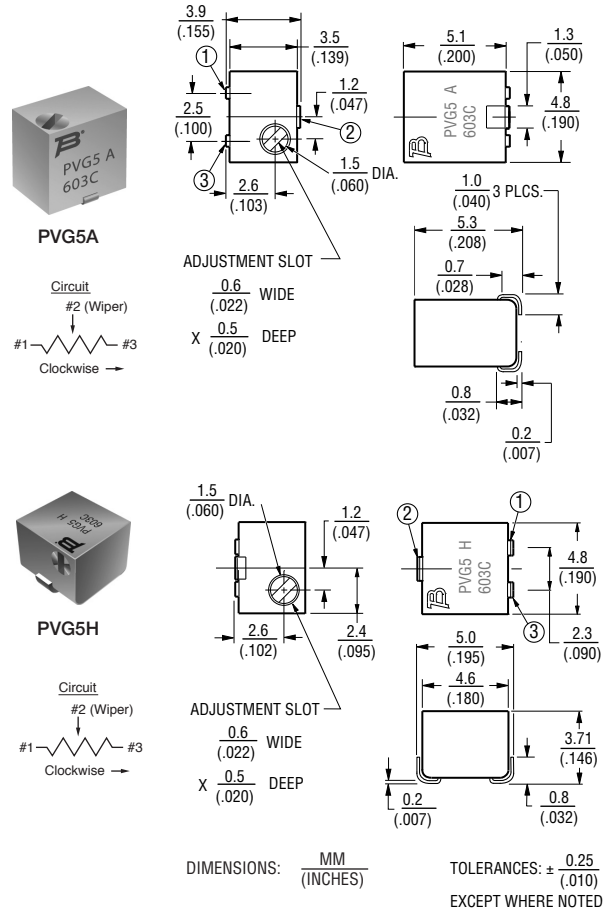
# Trimmer Potentiometers



## 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)



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

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**WARNING**  
Cancer and Reproductive Harm  
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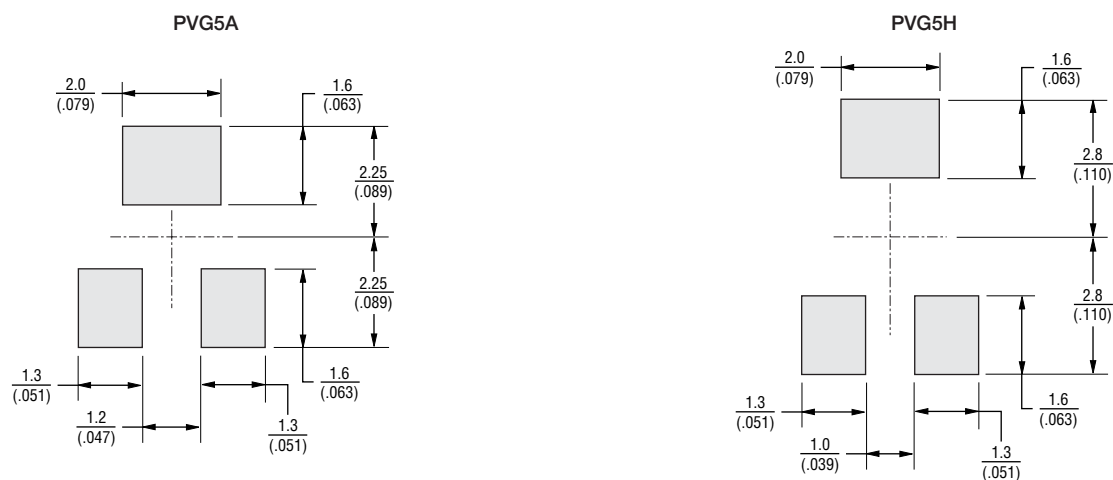
## Side Adjustment

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

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## Standard Land Pattern



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

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

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## ■ 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, 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
<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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