EXCEPT WHERE NOTED

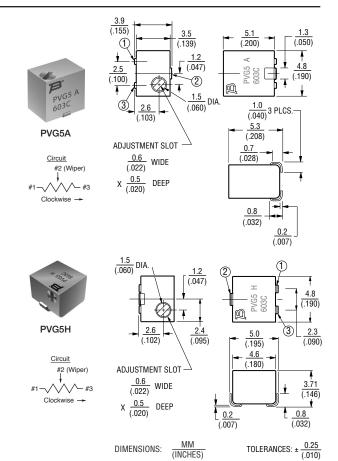
# **Trimmer Potentiometers**

# BOURNS

# **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
- 5 mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
- 5. RoHS compliant\*
- 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)

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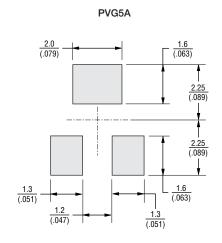
## **Side Adjustment**

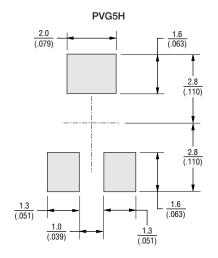
Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG5H100C03B00	0.25 (70 °C)	12	10 ohm ±10%	±150
PVG5H200C03B00	0.25 (70 °C)	12	20 ohm ±10%	±150
PVG5H500C03B00	0.25 (70 °C)	12	50 ohm ±10%	±150
PVG5H101C03B00	0.25 (70 °C)	12	100 ohm ±10%	±150
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

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

#### Characteristics

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

: Total Resistance Change ΔV.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

PV G5 A 103 C03 B00

Product ID PV = Trimming Potentiometer 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

R00 = 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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# Bourns:

PVG5A100C03B00	PVG5A100C03R00	PVG5A101C03B00	PVG5A101C03R00	PVG5A102C03B00
PVG5A102C03R00	PVG5A103C03B00	PVG5A103C03R00	PVG5A104C03B00	PVG5A104C03R00
PVG5A105C03B00	PVG5A105C03R00	PVG5A200C03B00	PVG5A200C03R00	PVG5A201C03B00
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