EXCEPT WHERE NOTED

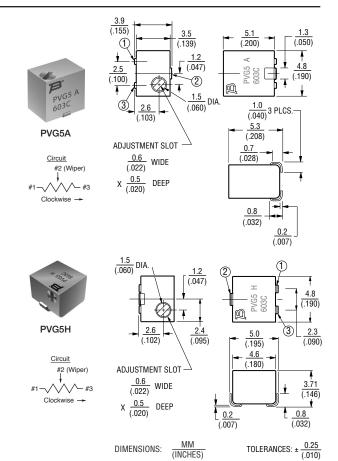
Trimmer Potentiometers

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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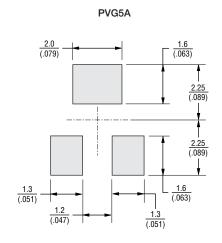
Side Adjustment

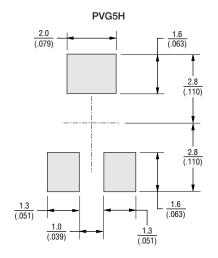
| Part Number | Power Rating (W) | Number of Turns (Effective Rotation Angle) | Total Resistance Value | TCR (ppm/°C) |
|----------------|---------------------|---|------------------------|-----------------|
| PVG5H100C03B00 | 0.25 (70 °C) | 12 | 10 ohm ±10% | ±150 |
| PVG5H200C03B00 | 0.25 (70 °C) | 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 | ΔTR : ±2% IR : 10M ohm min. |
| Vibration (20G) | ΔTR : ±1% ΔV.S.S.: ±1% |
| Shock (100G) | ΔTR : ±1% ΔV.S.S.: ±1% |
| Temperature Load Life | ΔTR : ±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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Mouser Electronics

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Bourns:

| PVG5A100C03B00 | PVG5A100C03R00 | PVG5A101C03B00 | PVG5A101C03R00 | PVG5A102C03B00 |
|----------------|----------------|----------------|----------------|----------------|
| PVG5A103C03B00 | PVG5A103C03R00 | PVG5A104C03B00 | PVG5A104C03R00 | PVG5A105C03B00 |
| PVG5A105C03R00 | PVG5A200C03B00 | PVG5A200C03R00 | PVG5A201C03B00 | PVG5A201C03R00 |
| PVG5A202C03B00 | PVG5A202C03R00 | PVG5A203C03B00 | PVG5A203C03R00 | PVG5A204C03B00 |
| PVG5A204C03R00 | PVG5A205C03B00 | PVG5A205C03R00 | PVG5A500C03B00 | PVG5A500C03R00 |
| PVG5A501C03B00 | PVG5A501C03R00 | PVG5A502C03B00 | PVG5A502C03R00 | PVG5A503C03B00 |
| PVG5A503C03R00 | PVG5A504C03B00 | PVG5A504C03R00 | PVG5H100C03B00 | PVG5H100C03R00 |
| PVG5H101C03B00 | PVG5H101C03R00 | PVG5H102C03B00 | PVG5H102C03R00 | PVG5H103C03B00 |
| PVG5H103C03R00 | PVG5H104C03B00 | PVG5H104C03R00 | PVG5H105C03B00 | PVG5H105C03R00 |
| PVG5H200C03B00 | PVG5H200C03R00 | PVG5H201C03B00 | PVG5H201C03R00 | PVG5H202C03B00 |
| PVG5H202C03R00 | PVG5H203C03B00 | PVG5H203C03R00 | PVG5H204C03B00 | PVG5H204C03R00 |
| PVG5H205C03B00 | PVG5H205C03R00 | PVG5H500C03B00 | PVG5H500C03R00 | PVG5H501C03B00 |
| PVG5H501C03R00 | PVG5H502C03B00 | PVG5H502C03R00 | PVG5H503C03B00 | PVG5H503C03R00 |
| PVG5H504C03B00 | PVG5H504C03R00 | | | |