# **Trimmer Potentiometers**



## SMD Sealed Type 3mm Size PVG3 Series

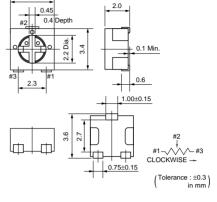
#### Features

- 1. Sealed construction protects the interior from dust and liquid, which achieves stable performance.
- 2. Driver plate with cross-slot is suitable for automatic adjustment.
- 3. Rotor with large diameter and deep groove improves driver insertion.
- 4. J-hook, Gull wing terminal shape, rear and through hole terminal shape.
- 5. 3mm and 4mm land pattern can be used without change. (Gull wing is suitable for 4mm size land pattern.)
- 6. Heat resistance performance enables high temperature peak re-flow soldering.

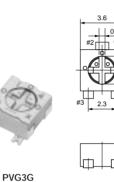
#### Applications

- 1. Small sensors
- 3. Copier
- 2. Optical Transceiver Module
- 4. Printer
- 5. Compact Power Supply
- 6. Wireless Radio module

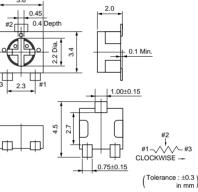




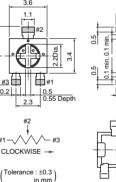




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Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG3□100C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	10ohm ±20%	±150
PVG3□200C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10)	20ohm ±20%	±150
PVG3□500C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	50ohm ±20%	±150
PVG3□101C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	100ohm ±20%	±150
PVG3□201C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	200ohm ±20%	±150
PVG3□501C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	500ohm ±20%	±150
PVG3□102C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	1k ohm ±20%	±150
PVG3□202C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	2k ohm ±20%	±150
PVG3□502C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	5k ohm ±20%	±150
PVG3□103C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	10k ohm ±20%	±150
PVG32203C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	20k ohm ±20%	±150
PVG3□503C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	50k ohm ±20%	±150



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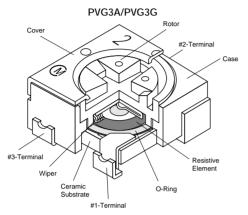
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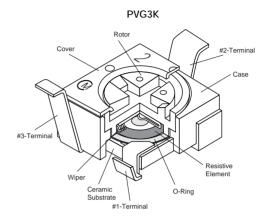
Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVG3□104C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	100k ohm ±20%	±150
PVG32204C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	200k ohm ±20%	±150
PVG3□504C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	500k ohm ±20%	±150
PVG3□105C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	1M ohm ±20%	±150
PVG3205C01	0.25(70°C)	Reflow/Soldering Iron	1(210°±10°)	2M ohm ±20%	±150

Operating Temperature Range: -55 to 125  $^\circ\text{C}$ 

The blank column is filled with the code of adjustment direction and lead type A (top, J-hook), G (top, gull-wing), or K (rear).

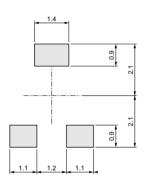
### ■ Construction



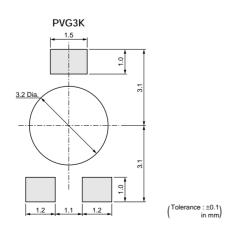


#### Standard Land Pattern

PVG3A



 $\binom{\text{Tolerance : } \pm 0.1}{\text{in mm}}$ 





19



PVG3G



 $\binom{\text{Tolerance : } \pm 0.1}{\text{in mm}}$ 

4

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Characteristics			
Temperature Cycle	ΔTR : ±2% ΔV.S.S.: ±1%		
Humidity	$\begin{array}{llllllllllllllllllllllllllllllllllll$		
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 : ±2% ΔV.S.S.: ±2%		
High Temperature Exposure	ΔTR : ±3% ΔV.S.S.: ±2%		
Rotational Life	$\Delta$ TR : R≤100 kohm ··· ±3% or 2 ohm max., whichever is greater R>100 kohm ··· +0/-10% (50 cycles)		

ΔTR : Total Resistance Change

ΔV.S.S.: Voltage Setting Stability

IR : Insulation Resistance

R : Standard Total Resistance

