

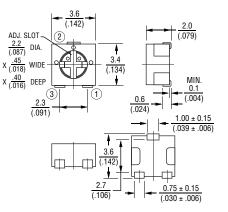
Features

- Surface Mount 3 mm Square / Single-turn / Cermet / Sealed
- Available in J-hook, gull-wing and reverse gull-wing pin styles
- Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
- 3 mm design meets EIA/EIAJ/IPC/VECI SMD standard trimmer footprint
- **RoHS compliant***
- Metal cover for thermal protection/heat transfer
- Units tested under 85 °C water test for 60 seconds, no bubbles

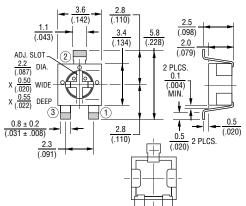
PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer

Product Dimensions

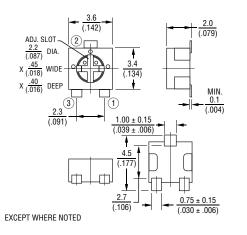




PVG3K



PVG3G





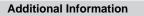
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

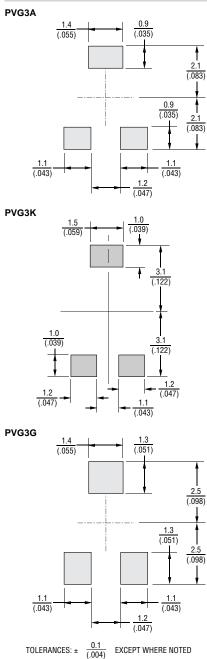
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Recommended PCB Layout



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

PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer **BOURNS**®

R00 = Tape and Reel (1,000 pcs./7 " reel)

Environmental Characteristics

Temperature Cycle	ΔTR : ±2 % ΔV.S.S.: ±1 %
Humidity	ΔTR : ±2 % IR : 10 M ohm min.
Vibration (20 G)	ΔTR : ±1 % ΔV.S.S.: ±1 %
Shock (100 G)	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 : ±2 % ΔV.S.S.: ±2 %
High Temperature Exposure	ΔTR : ±3 % ΔV.S.S.: ±2 %
Rotational Life	Δ 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

Standard Resistance Table

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.

Schematic

2 WIPER ccw (1-//////-3 cw CLOCKWISE -

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PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer BOURNS

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Mechanical Rotation Angle	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PVG3A100C01				10		
PVG3A200C01				20		
PVG3A500C01				50		
PVG3A101C01	0.25	1 (210 ° ±10 °)	250 ° ±10 °	100	±20 %	±150
PVG3A201C01				200		
PVG3A501C01				500		
PVG3A102C01				1k		
PVG3A202C01				2k		
PVG3A502C01				5k		
PVG3A103C01				10k		
PVG3A203C01				20k		
PVG3A503C01				50k		
PVG3A104C01				100k		
PVG3A204C01				200k		
PVG3A504C01				500k		
PVG3A105C01				1M		
PVG3A205C01	1			2M		

Top Adjustment (Standard J-Hook Style)

Operating Temperature Range: -55 to 125 °C

Soldering Method: Reflow / Soldering Iron

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PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer BOURNS

Top Adjustment (Gull-Wing Style)

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Mechanical Rotation Angle	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PVG3G100C01		1 (210 ° ±10 °)	250°±10°	10	±20 %	±150
PVG3G200C01				20		
PVG3G500C01				50		
PVG3G101C01				100		
PVG3G201C01				200		
PVG3G501C01				500		
PVG3G102C01				1k		
PVG3G202C01				2k		
PVG3G502C01	0.25			5k		
PVG3G103C01				10k		
PVG3G203C01	-			20k		
PVG3G503C01				50k		
PVG3G104C01	-			100k		
PVG3G204C01				200k		
PVG3G504C01				500k		
PVG3G105C01				1M		
PVG3G205C01				2M	1	

Operating Temperature Range: -55 to 125 °C

Soldering Method: Reflow / Soldering Iron

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PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer ourns

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Mechanical Rotation Angle	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PVG3K100C01				10		
PVG3K200C01				20		
PVG3K500C01		1 (210 ° ±10 °)	250 ° ±10 °	50	±20 %	±150
PVG3K101C01	0.25			100		
PVG3K201C01				200		
PVG3K501C01				500		
PVG3K102C01				1k		
PVG3K202C01				2k		
PVG3K502C01				5k		
PVG3K103C01				10k		
PVG3K203C01				20k		
PVG3K503C01				50k		
PVG3K104C01				100k		
PVG3K204C01				200k		
PVG3K504C01				500k		
PVG3K105C01				1M		
PVG3K205C01	1			2M		

Rear Adjustment (Reverse Gull-Wing Style)

Operating Temperature Range: -55 to 125 °C

Soldering Method: Reflow / Soldering Iron

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REV. 08/19

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