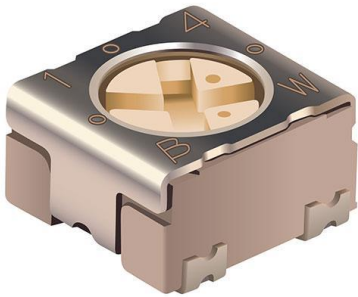


PVG3A503C01R00 Datasheet

www.digi-electronics.com



PVG3A503C01R00

<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number PVG3A503C01R00-DG

Manufacturer [Bourns Inc.](#)

Manufacturer Product Number PVG3A503C01R00

Description TRIMMER 50K OHM 0.25W J LEAD TOP

Detailed Description 50 kOhms 0.25W, 1/4W J Lead Surface Mount Trimmer Potentiometer Cermet 1 Turn Top Adjustment



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

PVG3A503C01R00

Series:

PVG3

Resistance:

50 kOhms

Tolerance:

±20%

Number of Turns:

1

Resistive Material:

Cermet

Termination Style:

J Lead

Base Product Number:

PVG3A

Manufacturer:

Bourns Inc.

Product Status:

Active

Power (Watts):

0.25W, 1/4W

Temperature Coefficient:

±150ppm/°C

Adjustment Type:

Top Adjustment

Mounting Type:

Surface Mount

Size / Dimension:

Rectangular - 0.142" x 0.134" Face (3.60mm x 3.40mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

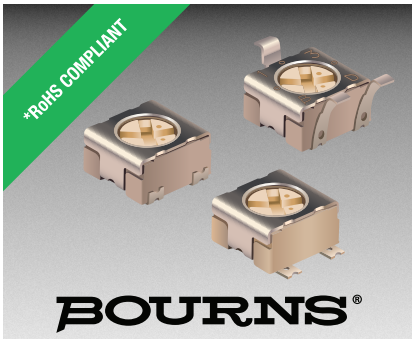
8533.40.8050

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



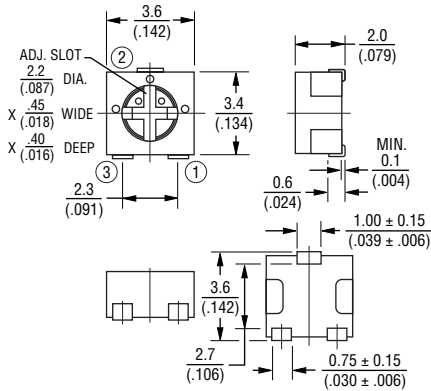
Features

- 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
- Storage Condition.... 40 °C max. / 70 % R.H. max.

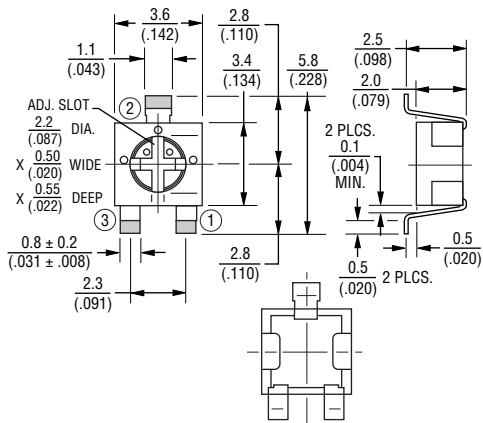
PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer

Product Dimensions

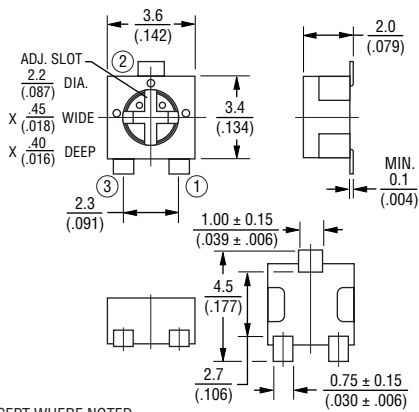
PVG3A



PVG3K



PVG3G



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS: MM (INCHES)

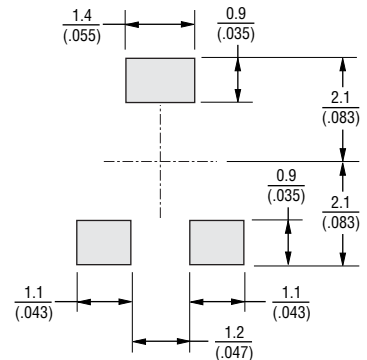
Additional Information

Click these links for more information:

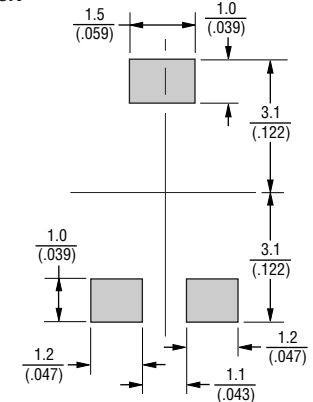


Recommended PCB Layout

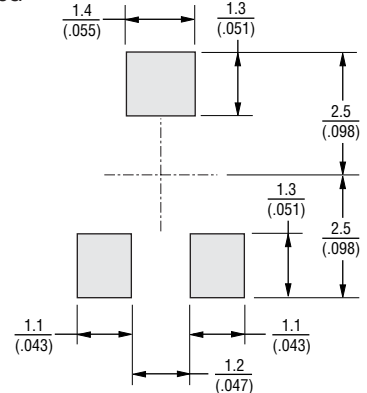
PVG3A



PVG3K



PVG3G



TOLERANCES: ± 0.1 (.004) EXCEPT WHERE NOTED



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See 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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PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer



How To Order

PV G3 A 103 C01 R00

Product ID _____
 PV = Trimming Potentiometer

Series _____
 G3 = SMD Sealed 3 mm Square, Single-Turn

Adjustment Direction/Lead Type _____
 A = J-Hook
 G = Gull-Wing
 K = Reverse Gull-Wing

Resistance Code _____
 See Standard Resistance Table

Individual Specification _____
 C01 = Standard Type

Packaging - Tape and Reel Designator (MSL-1) _____
 R00 = 1,000 pcs./7" reel

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

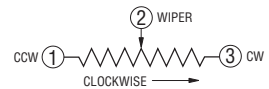
Popular distribution values listed in **boldface**.
 Special resistances available.

Environmental Characteristics

Temperature Cycle	$\Delta TR : \pm 2 \%$ $\Delta V.S.S.: \pm 1 \%$
Humidity	$\Delta TR : \pm 2 \%$ IR : 10 M ohm min.
Vibration (20 G)	$\Delta TR : \pm 1 \%$ $\Delta V.S.S.: \pm 1 \%$
Shock (100 G)	$\Delta TR : \pm 1 \%$ $\Delta V.S.S.: \pm 1 \%$
Temperature Load Life	$\Delta TR : \pm 3 \%$ or 3 ohm max., whichever is greater $\Delta V.S.S.: \pm 1 \%$
Low Temperature Exposure	$\Delta TR : \pm 2 \%$ $\Delta V.S.S.: \pm 2 \%$
High Temperature Exposure	$\Delta TR : \pm 3 \%$ $\Delta V.S.S.: \pm 2 \%$
Rotational Life	$\Delta TR : R \leq 100 \text{ kohm}$ $\pm 3 \%$ or 2 ohm max., whichever is greater $R > 100 \text{ kohm}$ +0/-10 % (50 cycles)

ΔTR : Total Resistance Change
 $\Delta V.S.S.$: Voltage Setting Stability
 IR: Insulation Resistance

Schematic



PVG3 Series – SMD Sealed Type Single-Turn Trimming Potentiometer**BOURNS®****Top Adjustment (Standard J-Hook 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)
PVG3A100C01	0.25	1 (210 ° ±10 °)	250 ° ±10 °	10	±20 %	±150
PVG3A200C01				20		
PVG3A500C01				50		
PVG3A101C01				100		
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				2M		

Operating Temperature Range: -55 to 125 °C

Soldering Method: Reflow / Soldering Iron

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Users should verify actual device performance in their specific applications.

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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	0.25	1 (210 ° ±10 °)	250 ° ±10 °	10	±20 %	±150
PVG3G200C01				20		
PVG3G500C01				50		
PVG3G101C01				100		
PVG3G201C01				200		
PVG3G501C01				500		
PVG3G102C01				1k		
PVG3G202C01				2k		
PVG3G502C01				5k		
PVG3G103C01				10k		
PVG3G203C01				20k		
PVG3G503C01				50k		
PVG3G104C01				100k		
PVG3G204C01				200k		
PVG3G504C01				500k		
PVG3G105C01				1M		
PVG3G205C01				2M		

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®****Rear Adjustment (Reverse 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)
PVG3K100C01	0.25	1 (210 ° ±10 °)	250 ° ±10 °	10	±20 %	±150
PVG3K200C01				20		
PVG3K500C01				50		
PVG3K101C01				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				2M		

Operating Temperature Range: -55 to 125 °C

Soldering Method: Reflow / Soldering Iron

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