

Trimmer Potentiometers



SMD Open Type 3mm Size PVZ3/PVS3/PVA3 Series

2

PVZ3 Series

■ Features

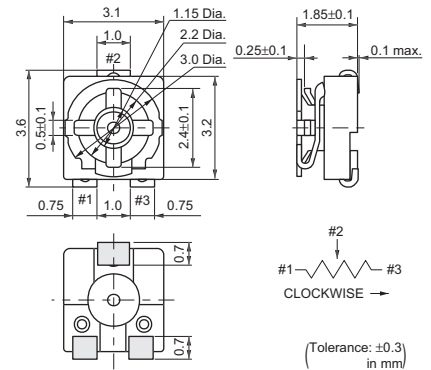
1. Excellent solderability characteristics are achieved via special plating techniques on each termination.
2. Specially designed substrate prevents wicking of flux onto the top of the part body.
3. Funnel shaped adjustment slot allows for in-process automatic adjustment.
4. High-heat resistance type is available (PVZ3A_C01/PVZ3K_E01/PVZ3R_E01).
5. Enlarged bottom termination enhance soldering strength while reducing the necessary land area required promoting high-density PCB mounting.
6. Flat surface is provided for smooth pick and place. (for PVZ3K Series)
7. Low profile rear adjustment type (PVZ3R Series) realizes 1.5mm max. height by infilling driver plate into through-hole of PCB.
8. The standard position of driver plate is adjusted at the center normally, but another position is also available.
9. This product meets Pb-free.

■ Applications

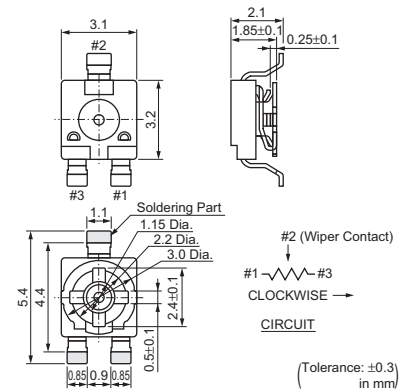
1. Optical pick up
2. Cordless telephones
3. CD players
4. FDD
5. Motor
6. CD-ROMs
7. Car stereos
8. TFT-LCD TV sets
9. Headphone stereos



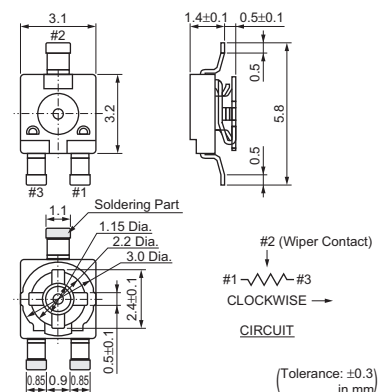
PVZ3A



PVZ3K




PVZ3R



Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVZ3A201□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	200ohm ±30%	±500
PVZ3A301□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	300ohm ±30%	±500
PVZ3A501□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	500ohm ±30%	±500
PVZ3A102□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	1k ohm ±30%	±500
PVZ3A202□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	2k ohm ±30%	±500
PVZ3A302□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	3k ohm ±30%	±500
PVZ3A502□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	5k ohm ±30%	±500
PVZ3A103□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	10k ohm ±30%	±500
PVZ3A203□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	20k ohm ±30%	±500
PVZ3A303□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	30k ohm ±30%	±500

Continued on the following page. ↗

 Continued from the preceding page.

Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVZ3A503□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	50k ohm ±30%	±500
PVZ3A104□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	100k ohm ±30%	±500
PVZ3A204□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	200k ohm ±30%	±500
PVZ3A304□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	300k ohm ±30%	±500
PVZ3A504□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	500k ohm ±30%	±500
PVZ3A105□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	1M ohm ±30%	±500
PVZ3A205□	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	2M ohm ±30%	±500
PVZ3K201E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	200ohm ±30%	±500
PVZ3K301E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	300ohm ±30%	±500
PVZ3K501E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	500ohm ±30%	±500
PVZ3K102E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	1k ohm ±30%	±500
PVZ3K202E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	2k ohm ±30%	±500
PVZ3K302E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	3k ohm ±30%	±500
PVZ3K502E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	5k ohm ±30%	±500
PVZ3K103E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	10k ohm ±30%	±500
PVZ3K203E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	20k ohm ±30%	±500
PVZ3K303E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	30k ohm ±30%	±500
PVZ3K503E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	50k ohm ±30%	±500
PVZ3K104E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	100k ohm ±30%	±500
PVZ3K204E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	200k ohm ±30%	±500
PVZ3K304E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	300k ohm ±30%	±500
PVZ3K504E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	500k ohm ±30%	±500
PVZ3K105E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	1M ohm ±30%	±500
PVZ3K205E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	2M ohm ±30%	±500
PVZ3R201E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	200ohm ±30%	±500
PVZ3R301E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	300ohm ±30%	±500
PVZ3R501E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	500ohm ±30%	±500
PVZ3R102E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	1k ohm ±30%	±500
PVZ3R202E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	2k ohm ±30%	±500
PVZ3R302E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	3k ohm ±30%	±500
PVZ3R502E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	5k ohm ±30%	±500
PVZ3R103E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	10k ohm ±30%	±500
PVZ3R203E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	20k ohm ±30%	±500
PVZ3R303E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	30k ohm ±30%	±500
PVZ3R503E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	50k ohm ±30%	±500
PVZ3R104E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	100k ohm ±30%	±500
PVZ3R204E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	200k ohm ±30%	±500
PVZ3R304E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	300k ohm ±30%	±500
PVZ3R504E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	500k ohm ±30%	±500
PVZ3R105E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	1M ohm ±30%	±500
PVZ3R205E01	0.1(50°C)	Reflow/Soldering Iron	1(230°±10°)	2M ohm ±30%	±500

Operating Temperature Range: -25 to 85 °C

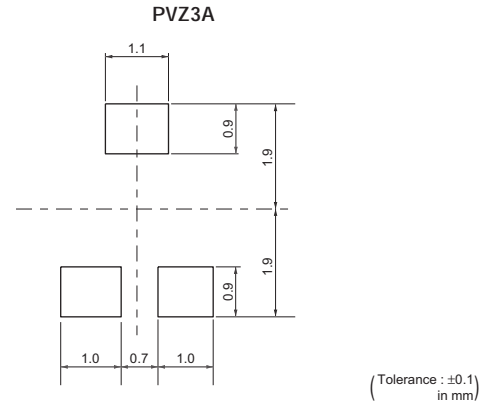
The blank column is filled with the code of individual specification A01 (standard type) and C01 (high-heat resistance type).

2

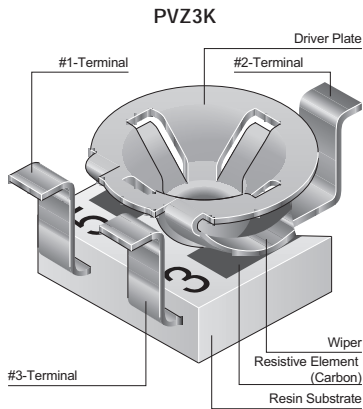
■ Construction



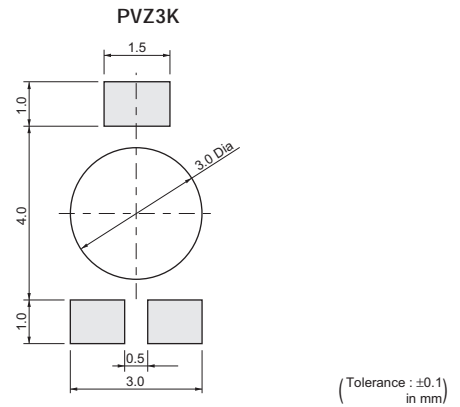
■ Standard Land Pattern



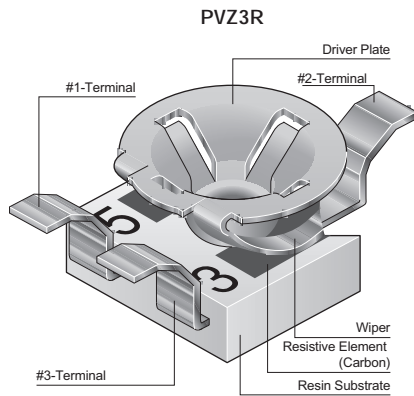
■ Construction



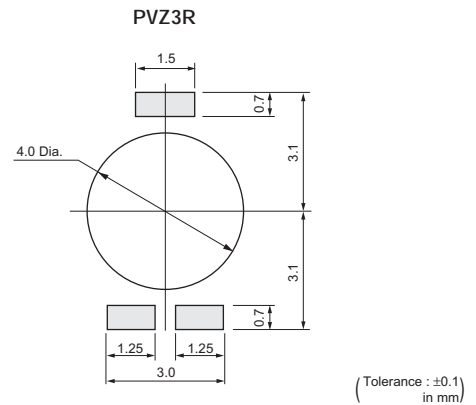
■ Standard Land Pattern



■ Construction



■ Standard Land Pattern



■ Characteristics

Humidity Exposure	Res. Change : +10, -2%
High Temperature Exposure	Res. Change : $R \leq 100\text{kohm} \cdots +2, -10\%$ $100\text{kohm} < R \cdots +2, -15\%$
Humidity Load Life	Res. Change : $\pm 10\%$
Load Life	Res. Change : $R \leq 100\text{kohm} \cdots +2, -10\%$ $100\text{kohm} < R \cdots +2, -15\%$
Temperature Cycle	Res. Change : $\pm 5\%$
Temperature Coefficient of Resistance	$\pm 500\text{ppm}/^\circ\text{C}$
Rotational Life	Res. Change : $\pm 10\%$ (10 cycles)