

# Trimmer Potentiometers



**muRata** *Innovator  
in Electronics*  
Murata  
Manufacturing Co., Ltd.

Cat.No.R50E-16

# Trimmer Potentiometers



## SMD Open Type 2mm Size PVZ2/PVA2 Series

### PVZ2 Series

#### ■ Features

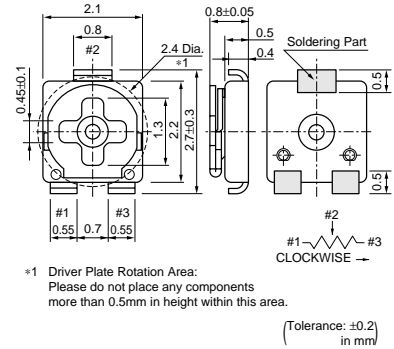
1. Ultra-small and thin external dimensions of 2.1(W)x2.7(L)x0.85 max. (T)mm.  
(Top adjustment type: PVZ2A\_C04 Series)
2. Ultra-small and thin external dimensions of 2.1(W)x4.8(L)x0.9 max. (T)mm.  
(Rear adjustment type: PVZ2R\_C04 Series)  
Compact PCB design is possible by smaller adjustment hole (3.0mm dia.) due to short wing length (4.8mm).
3. Au plated termination achieves a high density PCB mounting.
4. Cross-shaped driver slot allows for in-process automatic adjustment and it provides superior adjustability.
5. Two-piece parts construction achieves low cost and excellent quality.
6. Special resin substrate allows high peak temperature for reflow soldering. (PVZ2\_Cxx Series)

#### ■ Applications

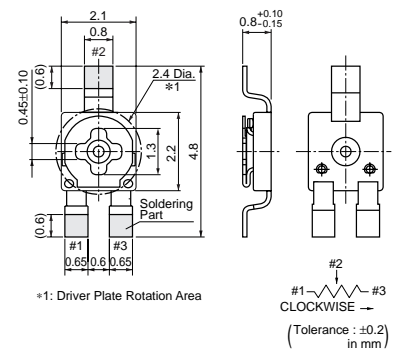
- |                   |                         |
|-------------------|-------------------------|
| 1. Pick-up module | 2. LCD                  |
| 3. Cellular-phone | 4. PHS                  |
| 5. Pager          | 6. DVC                  |
| 7. Digital camera | 8. Portable audio, etc. |



PVZ2A



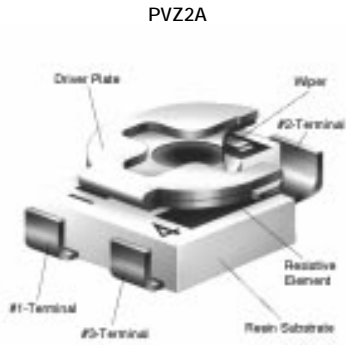
PVZ2R



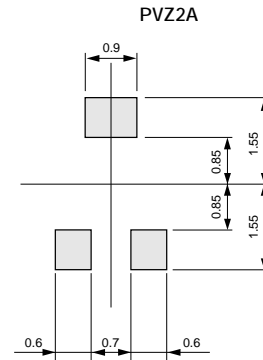
Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVZ2□471C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	470ohm ±30%	±500
PVZ2□102C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	1k ohm ±30%	±500
PVZ2□222C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	2.2k ohm ±30%	±500
PVZ2□472C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	4.7k ohm ±30%	±500
PVZ2□103C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	10k ohm ±30%	±500
PVZ2□223C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	22k ohm ±30%	±500
PVZ2□473C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	47k ohm ±30%	±500
PVZ2□104C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	100k ohm ±30%	±500
PVZ2□224C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	220k ohm ±30%	±500
PVZ2□474C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	470k ohm ±30%	±500
PVZ2□105C04	0.05(50°C)	Reflow/Soldering Iron	1(240°±10°)	1M ohm ±30%	±500

\*Available for other resistance value.  
 Operating Temperature Range: -25 to 85 °C  
 The blank column is filled with the code of adjustment direction and lead type A (top) or R (rear).

■ Construction

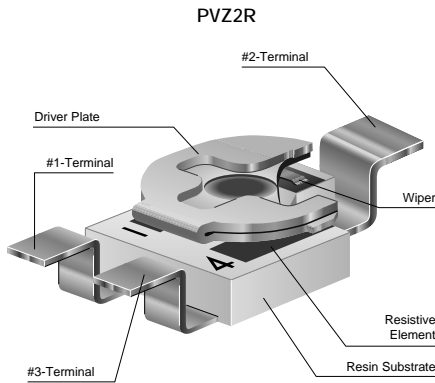


■ Standard Land Pattern

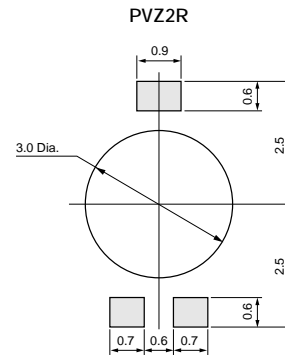


(Tolerance : ±0.1 in mm)

■ Construction



■ Standard Land Pattern



(Tolerance : ±0.1 in mm)

■ Characteristics

Humidity Exposure	Res. Change: +10, -2%
High Temperature Exposure	Res. Change: $R \leq 50\text{kohm} \dots +2, -10\%$ $50\text{kohm} < R \dots +2, -15\%$
Humidity Load Life	Res. Change: ±10%
Load Life	Res. Change: $R \leq 50\text{kohm} \dots +2, -10\%$ $50\text{kohm} < R \dots +2, -15\%$
Temperature Cycle	Res. Change: ±5%
Rotational Life	Res. Change: ±10% (10 cycles)