

Trimmer Potentiometers



SMD Open Type 2mm Size PVZ2/PVA2 Series

PVZ2 Series

■ Features

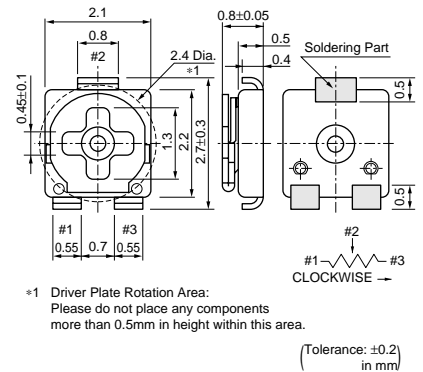
1. Ultra-small and thin external dimensions of 2.1(W)x2.7(L)x0.85 max. (T)mm.
(Top adjustment type: PVZ2A_C04 Series)
2. Ultra-small and thin external dimensions of 2.1(W)x4.8(L)x0.9 max. (T)mm.
(Rear adjustment type: PVZ2R_C04 Series)
Compact PCB design is possible by smaller adjustment hole (3.0mm 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).
7. Complies with RoHS directive.

■ Applications

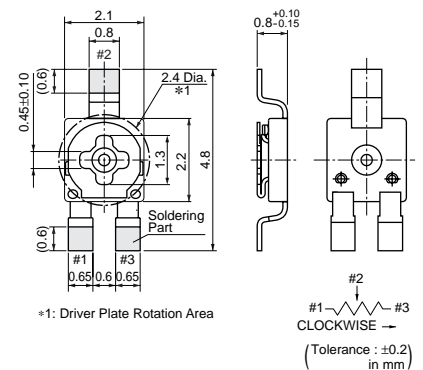
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|-------------------|-------------------------|
| 1. Pick-up module | 2. LCD |
| 3. Cellular-phone | 4. PHS |
| 5. Pager | 6. DVC |
| 7. Digital camera | 8. Portable audio, etc. |



PVZ2A



PVZ2R



Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVZ2□471C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	470ohm ±30%	±500
PVZ2□681C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	680ohm ±30%	±500
PVZ2□102C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	1k ohm ±30%	±500
PVZ2□152C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	1.5k ohm ±30%	±500
PVZ2□222C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	2.2k ohm ±30%	±500
PVZ2□332C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	3.3k ohm ±30%	±500
PVZ2□472C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	4.7k ohm ±30%	±500
PVZ2□682C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	6.8k ohm ±30%	±500
PVZ2□103C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	10k ohm ±30%	±500
PVZ2□153C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	15k ohm ±30%	±500
PVZ2□223C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	22k ohm ±30%	±500
PVZ2□303C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	30k ohm ±30%	±500
PVZ2□333C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	33k ohm ±30%	±500
PVZ2□473C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	47k ohm ±30%	±500
PVZ2□503C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	50k ohm ±30%	±500
PVZ2□683C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	68k ohm ±30%	±500
PVZ2□104C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	100k ohm ±30%	±500
PVZ2□154C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	150k ohm ±30%	±500
PVZ2□204C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	200k ohm ±30%	±500
PVZ2□224C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	220k ohm ±30%	±500
PVZ2□304C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	300k ohm ±30%	±500

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Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVZ2□334C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	330k ohm ±30%	±500
PVZ2□474C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	470k ohm ±30%	±500
PVZ2□504C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	500k ohm ±30%	±500
PVZ2□684C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	680k ohm ±30%	±500
PVZ2□105C04	0.1(50°C)	Reflow/Soldering Iron	1(240°±10°)	1M ohm ±30%	±500

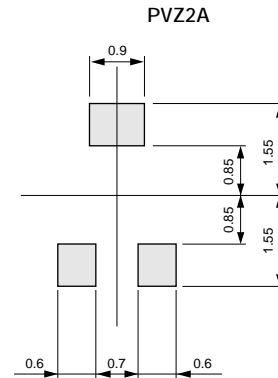
Operating Temperature Range: -25 to 85 °C

The blank column is filled with the code of adjustment direction and lead type A (top) or R (rear).

Construction

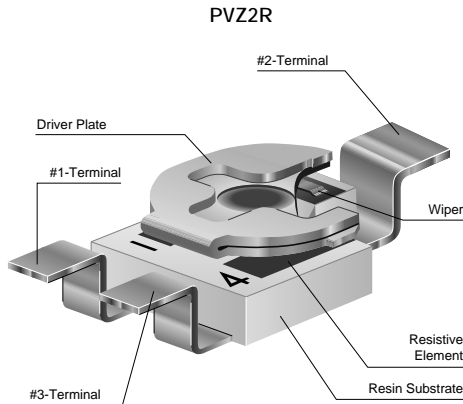


Standard Land Pattern

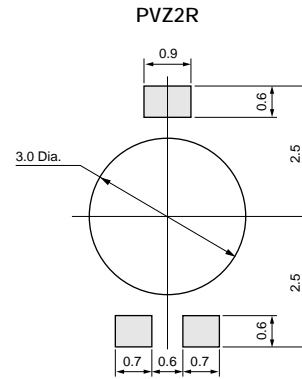


(Tolerance : ±0.1 in mm)

Construction



Standard Land Pattern



(Tolerance : ±0.1 in mm)

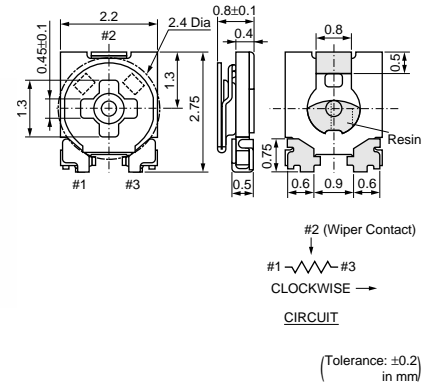
Characteristics

Humidity Exposure	Res. Change: +10, -2%
High Temperature Exposure	Res. Change: R≤50kohm...+2, -10% 50kohm<R...+2, -15%
Humidity Load Life	Res. Change: ±10%
Load Life	Res. Change: R≤50kohm...+2, -10% 50kohm<R...+2, -15%
Temperature Cycle	Res. Change: ±5%
Rotational Life	Res. Change: ±10% (10 cycles)

PVA2 Series

■ Features

1. Ultra-small and thin external dimensions of 2.2(W)x2.75(L)x0.90 max.(T)mm.
2. For the terminal attachment method of construction which uses neither solder nor adhesives, good solderability and terminal attachment intensity are realized.
3. Because of multi-contact wiper structure, PVA2 has a stable characteristics (low noise).
4. PVA2 series do not use a solder, flux and cleaning solvent, so they are environmentally friendly products.
5. Heat resistance performance enables high temperature peak re-flow soldering.
6. PVA2 series comply with RoHS directive.



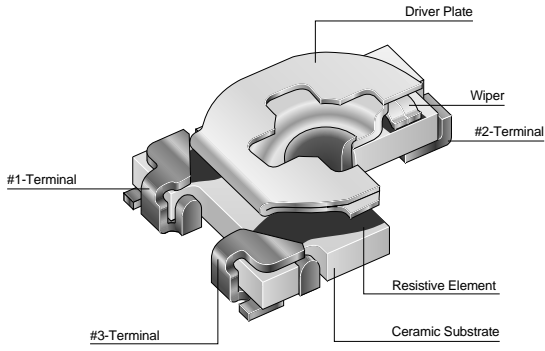
■ Applications

1. Thin-model optical pick-up module
2. LCD module
3. Optical communication module
4. Small sensor module
5. Digital camera
6. Small telecommunicaions equipment, etc.

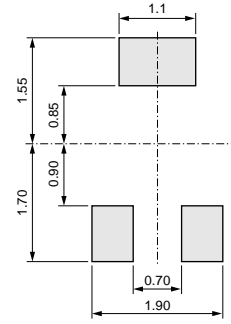
Part Number	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PVA2A101A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	100ohm ±25%	±250
PVA2A151A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	150ohm ±25%	±250
PVA2A221A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	220ohm ±25%	±250
PVA2A331A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	330ohm ±25%	±250
PVA2A471A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	470ohm ±25%	±250
PVA2A681A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	680ohm ±25%	±250
PVA2A102A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	1k ohm ±25%	±250
PVA2A152A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	1.5k ohm ±25%	±250
PVA2A222A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	2.2k ohm ±25%	±250
PVA2A332A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	3.3k ohm ±25%	±250
PVA2A472A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	4.7k ohm ±25%	±250
PVA2A682A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	6.8k ohm ±25%	±250
PVA2A103A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	10k ohm ±25%	±250
PVA2A153A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	15k ohm ±25%	±250
PVA2A223A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	22k ohm ±25%	±250
PVA2A333A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	33k ohm ±25%	±250
PVA2A473A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	47k ohm ±25%	±250
PVA2A683A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	68k ohm ±25%	±250
PVA2A104A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	100k ohm ±25%	±250
PVA2A154A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	150k ohm ±25%	±250
PVA2A224A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	220k ohm ±25%	±250
PVA2A334A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	330k ohm ±25%	±250
PVA2A474A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	470k ohm ±25%	±250
PVA2A684A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	680k ohm ±25%	±250
PVA2A105A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	1M ohm ±25%	±250
PVA2A155A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	1.5M ohm ±25%	±250
PVA2A225A01	0.1(70°C)	Reflow/Soldering Iron	1(260°±10°)	2.2M ohm ±25%	±250

Operating Temperature Range: -55 to 125 °C

■ Construction



■ Standard Land Pattern



(Tolerance : ±0.1
in mm)

■ Characteristics

Humidity Exposure	Res. Change: ±3%
High Temperature Exposure	Res. Change: ±3%
Humidity Load Life	Res. Change: ±3%
Load Life	Res. Change: ±3%
Temperature Cycle	Res. Change: ±3%
Rotational Life	Res. Change: ±10% (10 cycles)