



# CHIP TRIMMER POTENTIOMETER

## Carbon Chip Trimmer Potentiometer POZ3 Series

**Utilizes new unique two piece construction to achieve low cost trimmer while maintaining excellent performance**

### ■ 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. Enlarged bottom termination enhance soldering strength while reducing the necessary land area required promoting high-density PCB mounting (POZ3AN Only)
4. Funnel shaped, adjustment slot allows for in-process automatic adjustment.
5. Flat surface is provided for smooth pick and place. (POZ3KN Only)
6. Heat-Resistant type is available. (POZ3AN-51)
7. The standard position of driver plate is adjusted at the center normally, but another position is also available.
8. This product meets Pb-free.

### ■ APPLICATIONS

Cordless telephones, CD-Players, CD-ROMs, Car stereos, TFT-LCD TV sets, Headphone stereos

### ■ PART NUMBERING

(Please specify the part number when ordering.)

(Ex.) 

POZ3	AN	-	1	-	103	N	-	T00
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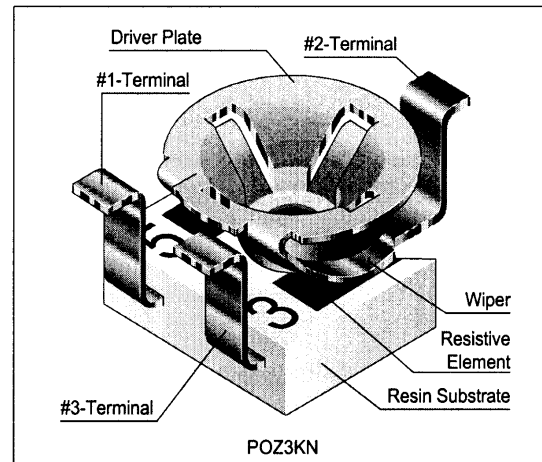
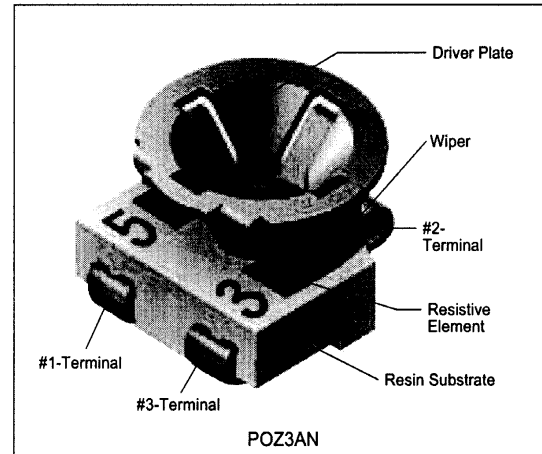
- ① Model number  
 ② Figure number AN : Top adjustment KN : Rear adjustment  
 ③ Options 1 : Standard  
 ④ Resistance code  
 ⑤ Total resistance tolerance N :  $\pm 30\%$   
 ⑥ Packaging code  
 Taping : T00.....2,000pcs./reel (180mm dia.) for POZ3AN  
           T04.....1,500pcs./reel (180mm dia.) for POZ3KN  
 Bulk : No codes...1,000pcs./bag

### ■ RATINGS

Item	POZ3
Standard Total Resistance Range	200 $\Omega$ to 2M $\Omega$
Total Resistance Tolerance	$\pm 30\%$ of standard total resistance value
Taper	B (Linear)
Power Rating	1/10W (50 $^{\circ}$ C)
Max. Working Voltage	50Vdc
Operating Temperature Range	-25 $^{\circ}$ C to +85 $^{\circ}$ C
Rotational Torque	2.0-19.6mNm (20-200gf·cm)
Effective Rotational Angle	230 $^{\circ}$ $\pm$ 10 $^{\circ}$

### ■ OTHERS



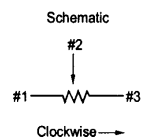
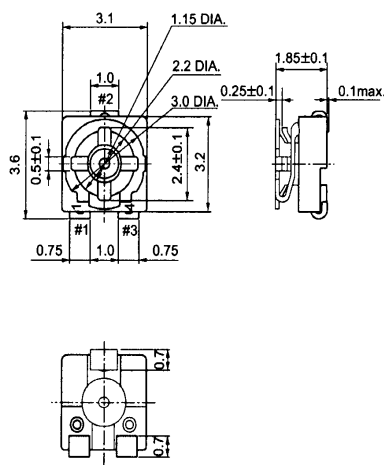
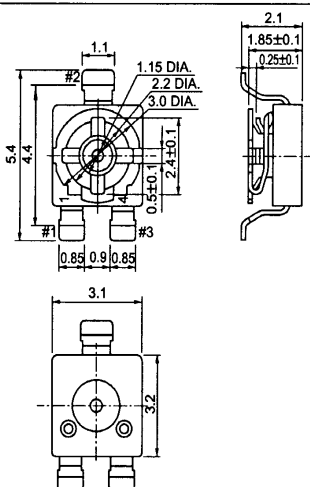
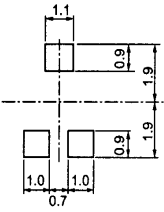
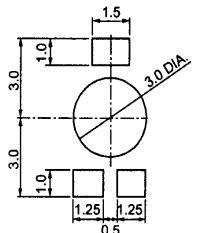
- See pages 43 to 44 for Notice
- See page 45 for test methods



### ■ ENVIRONMENTAL CHARACTERISTICS

Item	POZ3
Humidity Exposure	Res. Change : +10, -2%
High Temperature Exposure	Res. Change : $R \leq 100k\Omega$ ...+2, -10% 100k $\Omega$ <R...+2, -15%
Humidity Load Life	Res. Change : $\pm 10\%$
Load Life	Res. Change : $R \leq 100k\Omega$ ...+2, -10% 100k $\Omega$ <R...+2, -15%
Temperature Cycle	Res. Change : $\pm 5\%$
Temperature Coefficient of Resistance	$\pm 500$ ppm/ $^{\circ}$ C
Rotational Life	Res. Change : $\pm 10\%$ (10 cycles)

■PART NUMBER TABLE

Standard Total Resistance Values	Model Number	
	Top adjustment (For automatic adjustment)	Rear adjustment (For automatic adjustment)
	 <b>POZ3AN Series</b>	 <b>POZ3KN Series</b>
200Ω	POZ3AN-1-201N	POZ3KN-1-201N
300Ω	POZ3AN-1-301N	POZ3KN-1-301N
500Ω	POZ3AN-1-501N	POZ3KN-1-501N
1kΩ	POZ3AN-1-102N	POZ3KN-1-102N
2kΩ	POZ3AN-1-202N	POZ3KN-1-202N
3kΩ	POZ3AN-1-302N	POZ3KN-1-302N
5kΩ	POZ3AN-1-502N	POZ3KN-1-502N
10kΩ	POZ3AN-1-103N	POZ3KN-1-103N
20kΩ	POZ3AN-1-203N	POZ3KN-1-203N
30kΩ	POZ3AN-1-303N	POZ3KN-1-303N
50kΩ	POZ3AN-1-503N	POZ3KN-1-503N
100kΩ	POZ3AN-1-104N	POZ3KN-1-104N
200kΩ	POZ3AN-1-204N	POZ3KN-1-204N
300kΩ	POZ3AN-1-304N	POZ3KN-1-304N
500kΩ	POZ3AN-1-504N	POZ3KN-1-504N
1MΩ	POZ3AN-1-105N	POZ3KN-1-105N
2MΩ	POZ3AN-1-205N	POZ3KN-1-205N
<p>Outline dimensions</p>  <p>[ in mm Standard tolerance : ±0.3 ]</p>		
<p>Standard PCB layout</p>  <p>[ in mm Standard tolerance : ±0.1 ]</p>		

\* E6 resistance values are also available.