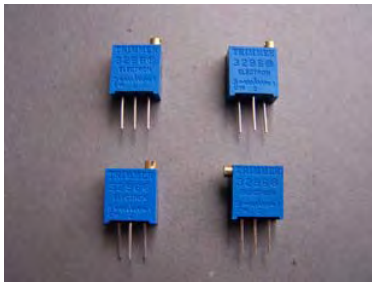


# Sharma Potentiometers

## WIW1029 (3296) Trimmer Potentiometer



### Features

- 9mm Multiturn Square
- Cermet / Industrial / Sealed
- 5 Terminals types (W / X / P / Y / Z)
- Available with a knob for finger adjust

### Electrical Characteristics

Standard Resistance Range  
10 to 5 Megohms  
(see standard resistance table)  
Resistance Tolerance  
 $\pm 10\%$  std.  
(tighter tolerance available)  
Absolute Minimum Resistance  
1% or 2 ohms max.  
(whichever is greater)  
Contact Resistance Variation  
3% or 3 ohms max.  
(whichever is greater)  
Adjustability  
Voltage  $\pm 0.01\%$   
Resistance  $\pm 0.05\%$   
Resolution: Infinite  
Insulation Resistance  
500 vdc  
1,000 Megohms min.  
Dielectric Strength  
101.3 kPa 600 vac  
8.5 kPa 360vac  
Effective Travel: 25turns nom

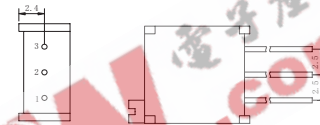
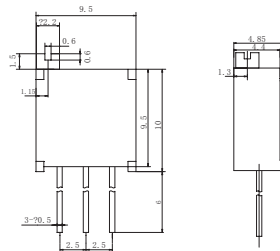
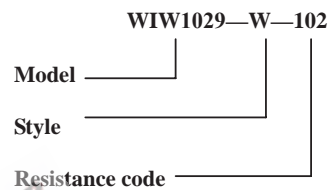
### Environmental Characteristics

Power Rating (300 volts max.)  
0.5 watt (70°C) , 0 watt (125°C)  
Temperature Range  
-55°C to +125°C  
Temperature Coefficient  
 $\pm 100\text{ppm}/^\circ\text{C}$   
Vibration  
98 m/s<sup>2</sup>  
(1%  $\Delta$  TR; 1%  $\Delta$  VR)  
Shock  
390 m/s<sup>2</sup>  
(1%  $\Delta$  TR; 1%  $\Delta$  VR)  
Load Life  
1,000 hours 0.5 watt @ 70°C  
(3%  $\Delta$  TR; 4% or 4 ohm, whichever is greater , CRV)  
Rotational Life: 200 cycles  
(3%  $\Delta$  TR; 4% or 4 ohm)

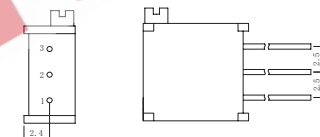
### Physical Characteristics

Torque  
36 mN · m max.  
Mechanical Stops  
Wiper idles  
Terminals  
Solderable pins  
Standard Packaging  
50pcs.per tube

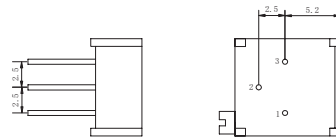
### How to order



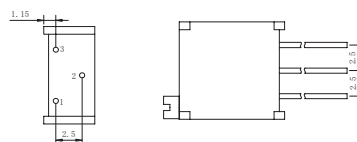
WIW1029W



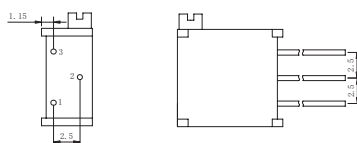
WIW1029X



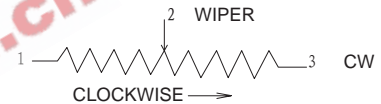
WIW1029P



WIW1029Y



WIW1029Z



### Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1000	102
2,000	202
5,000	502
10,000	103
20,000	203
25,000	253
50,000	503
100,000	104
200,000	204
250,000	254
500, 000	504
1, 000, 000	105
2, 000, 000	205
5, 000, 000	505

Special resistance available  
TCR of shaded areas  $\pm 250\text{ppm}/^\circ\text{C}$   
Detail Specification: Q/R Y256-2000  
Detail Mil-Spec: Q/R Y20021-2000