

# Sharma Potentiometers



## WI1016 Round Rotary Potentiometer



### Features

- Single Turn
- Cermet
- Industrial / Sealed
- Wide Resistance Range

### Electrical Characteristics

Standard Resistance Range  
100 to 5 megohms  
(see standard resistance table)

Resistance Tolerance  
±20% or ±10%  
(tighter tolerance available)

Absolute Minimum Resistance  
1% or 10 ohms max.  
(whichever is greater)

Contact Resistance Variation  
5% or 5 ohms max.  
(whichever is greater)

Adjustability  
Voltage ±0.05%  
Resistance ±0.15%

Resolution  
Infinite

Insulation Resistance  
500 vdc  
1,000 megohms min.

Dielectric Strength  
101.3 kPa 800 vac  
8.5 kPa 500 vac

Adjustment Angle  
225° nom.

### Environmental Characteristics

Power Rating (500 volts max.)  
1.5 watt (70°C), 0 watt (125°C)

Temperature Range  
-55°C to +125°C

Temperature Coefficient  
±250ppm/°C or ±100ppm/°C

Vibration  
98 m/s<sup>2</sup>  
(2% Δ TR; 2% Δ VR)

Shock  
490 m/s<sup>2</sup>  
(2% Δ TR; 2% Δ VR)

Load Life  
1,000 hours 1.5 watt @ 70°C  
(10% Δ TR; 6% or 6 ohms, Whichever is greater, CRV)

Rotational Life  
10,000 cycles  
(15% Δ TR; 6% or 6 ohms, Whichever is greater, CRV)

### Physical Characteristics

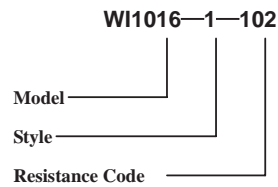
Mechanical Angle  
260° nom.

Torque  
50 mN • m max.

Stop Strength  
350 mN • m min.

Style Code
<p>WIW1016-1-16</p>
<p>WIW1016-1-32</p>
<p>WIW1016-2-12</p>
<p>WIW1016-3</p>

### How to order



### Standard Resistance Table

Resistance (Ohms)	Resistance Code
100	101
200	201
500	501
1,000	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

Detail Specification: Q/RYS14-2003

