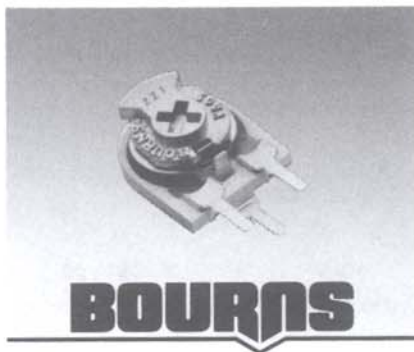




## 3/8" ROUND / SINGLE-TURN / CERMET INDUSTRIAL / OPEN FRAME

- Adjustable from front and rear, or top and bottom
- Carbon tip wiper for long life
- Durable metal construction

# BOURNS

### Model 3359/VA05\*

Bourns® Trimming Potentiometer

#### Electrical Characteristics

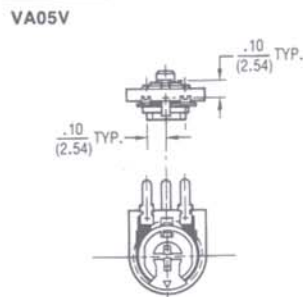
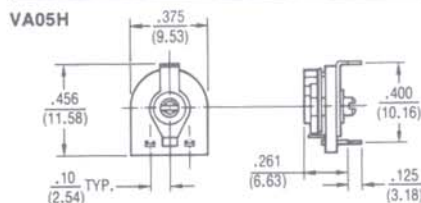
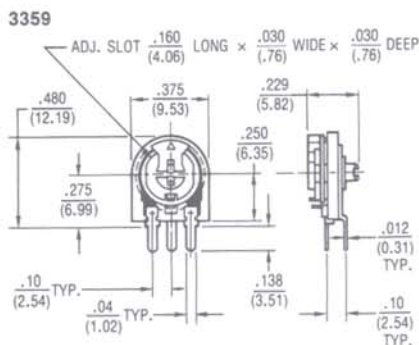
Standard Resistance Range ..... 100 to 2 megohms  
(see standard resistance table)  
Resistance Tolerance .....  $\pm 20\%$  std.  
Absolute Minimum Resistance ..... 1.0% or 2 ohms max.  
(whichever is greater)  
Contact Resistance Variation ..... 2% or 3 ohms  
(whichever is greater)  
Resolution ..... Infinite  
Adjustment Angle .....  $250^\circ$  nom.

#### Environmental Characteristics

Power Rating (250 volts max.)  
70°C ..... 0.5 watt  
125°C ..... 0 watt  
Temperature Range .....  $-65^\circ\text{C}$  to  $+125^\circ\text{C}$   
Temperature Coefficient  
100 ohms to 1K ohms .....  $\pm 300\text{ppm}/^\circ\text{C}$   
2K ohms to 2 megohms .....  $+150/-50\text{ppm}/^\circ\text{C}$   
Humidity ..... MIL-STD-202 Method 103  
504 hours (2%  $\Delta\text{TR}$ )  
Vibration ..... 30G (2%  $\Delta\text{TR}$ ; 2%  $\Delta\text{VR}$ )  
Shock ..... 100G (2%  $\Delta\text{TR}$ ; 2%  $\Delta\text{VR}$ )  
Load Life ..... 1,000 hours 0.5 watt @  $70^\circ\text{C}$   
(2%  $\Delta\text{TR}$ )  
Rotational Life ..... 500 cycles  
(10%  $\Delta\text{TR}$ )

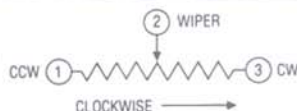
#### Physical Characteristics

Mechanical Angle .....  $270^\circ$  nom.  
Torque ..... 6.0 oz-in. max.  
1.5 oz-in. min.  
Stop Strength ..... 12 oz-in. min.  
Terminals ..... Solderable pins  
Weight ..... 0.04 oz.  
Marking ..... Manufacturer's  
trademark, resistance code,  
and model number.  
Standard Packaging .. 40 pcs. per tube



TOLERANCES:  $\pm .010$  (0.25) EXCEPT WHERE NOTED

DIMENSIONS IN (MM)



#### 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             |
| 50,000            | 503             |
| 100,000           | 104             |
| 200,000           | 204             |
| 500,000           | 504             |
| 1,000,000         | 105             |
| 2,000,000         | 205             |

#### HOW TO ORDER

**3359 P - 1 - 103**

Model \_\_\_\_\_  
3359 Standard  
VA05 Europe  
Style \_\_\_\_\_  
Standard or Modified \_\_\_\_\_  
Product Indicator  
-1 = Standard Product  
-10 = 10% Resistance Tolerance  
Resistance Code \_\_\_\_\_

Consult factory for other available options.




**BOURNS®**

Model 3359  
BOURNS® Variable Resistor  
Cermet Element

Actual Size

**FEATURES**

- Low price.
- High power rating: 0.50 watt at 70°C, 0.75 watt at 40°C.
- Infinite resolution.
- Resistance values through 2,000,000 ohms.
- Easily adjusted with any adjustment tool.
- Low temperature coefficient.
- Extended temperature range:  $-65^{\circ}$  to  $+125^{\circ}\text{C}$ .
- Resistance stability under humid conditions.
- Small size: "P" version only .228" above printed circuit board.



3359P



3359W

OBSOLETE

**STANDARD RESISTANCES**

| Resistance<br>(Ohms) | Part Number*                  |                                                |
|----------------------|-------------------------------|------------------------------------------------|
|                      | 3359P Printed<br>Circuit Pins | 3359W Printed<br>Circuit Pins<br>(Side Adjust) |
| 100                  | 3359P-1-101                   | 3359W-1-101                                    |
| 200                  | 3359P-1-201                   | 3359W-1-201                                    |
| 500                  | 3359P-1-501                   | 3359W-1-501                                    |
| 1,000                | 3359P-1-102                   | 3359W-1-102                                    |
| 2,000                | 3359P-1-202                   | 3359W-1-202                                    |
| 5,000                | 3359P-1-502                   | 3359W-1-502                                    |
| 10,000               | 3359P-1-103                   | 3359W-1-103                                    |

SPECIAL RESISTANCES AVAILABLE FROM 20 TO 2,000,000 OHMS

| Resistance<br>(Ohms) | Part Number*                 |                                               |
|----------------------|------------------------------|-----------------------------------------------|
|                      | 3359 Printed<br>Circuit Pins | 3359 Printed<br>Circuit Pins<br>(Side Adjust) |
| 20,000               | 3359P-1-203                  | 3359W-1-203                                   |
| 50,000               | 3359P-1-503                  | 3359W-1-503                                   |
| 100,000              | 3359P-1-104                  | 3359W-1-104                                   |
| 200,000              | 3359P-1-204                  | 3359W-1-204                                   |
| 500,000              | 3359P-1-504                  | 3359W-1-504                                   |
| 1,000,000            | 3359P-1-105                  | 3359W-1-105                                   |
| 2,000,000            | 3359P-1-205                  | 3359W-1-205                                   |

\*The last three digits of the part number represent the resistance in standard code.



