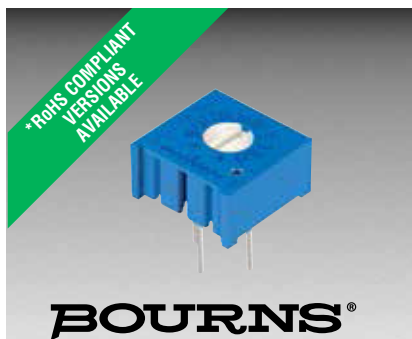




# THE DATASHEET OF 3386X-1-200LF



## Features

- Single Turn / Cermet / Industrial / Sealed
- Available on tape and reel
- Available with a knob for finger adjust
- Available with extended shaft
- Available with cross-slot rotor
- Top and side adjust types (F, P, H, W, X most popular)

- RoHS compliant\* version available
- For trimmer applications/processing guidelines, [click here](#)

## 3386 - 3/8 " Square Trim Pot® Trimming Potentiometer

### Electrical Characteristics

Standard Resistance Range ..... 10 ohms to 2 megohms  
(see standard resistance table)  
Resistance Tolerance .....  $\pm 10\%$  std.  
(tighter tolerance available)  
Absolute Minimum Resistance ..... 2 ohms max.  
Contact Resistance Variation ..... 2 % or 3 ohms max.  
(whichever is greater)  
Adjustability  
Voltage Divider .....  $\pm 0.05\%$   
Rheostat .....  $\pm 0.15\%$   
Resolution ..... Infinite  
Insulation Resistance ..... 500 vdc.  
1,000 megohms min.  
Dielectric Strength  
Sea Level ..... 900 vac  
70,000 Feet ..... 350 vac  
Adjustment Angle .....  $280^\circ$  nom.

### Environmental Characteristics

Power Rating (300 volts max.)  
85 °C ..... 0.5 watt  
125 °C ..... 0 watt  
Temperature Range ... -55 °C to +125 °C  
Temperature Coefficient ...  $\pm 100$  ppm/°C  
Seal Test ..... 85 °C Fluorinert†  
Humidity ..... MIL-STD-202 Method 103  
96 hours  
(2 %  $\Delta$ TR, 10 Megohms min.)  
Vibration ..... 30 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Shock ..... 100 G (1 %  $\Delta$ TR; 1 %  $\Delta$ VR)  
Load Life.. 1,000 hours 0.5 watt @ 70 °C  
(3 %  $\Delta$ TR; 3 % or 3 ohms,  
whichever is greater, CRV)  
Rotational Life ..... 200 cycles  
(4 %  $\Delta$ TR; 3 % or 3 ohms,  
whichever is greater, CRV)

### Physical Characteristics

Mechanical Angle .....  $310^\circ$  nom.  
Torque ..... 5.0 oz.-in. max.  
Stop Strength ..... 15.0 oz.-in. min.  
Terminals ..... Solderable pins  
Weight ..... 0.03 oz.  
Marking ..... Manufacturer's  
trademark, resistance code,  
wiring diagram, date code,  
manufacturer's model  
number and style  
Flammability ..... U.L. 94V-0  
Standard Packaging ..... 50 pcs. per tube  
Wiper ..... 50 % (Actual TR)  $\pm 10\%$   
Adjustment Tool ..... H-90



**WARNING**  
**Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

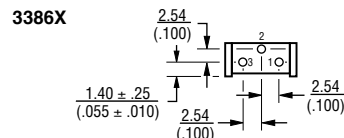
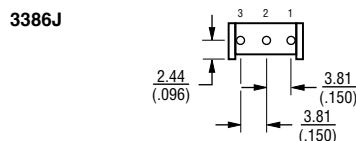
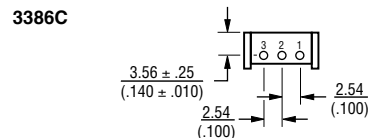
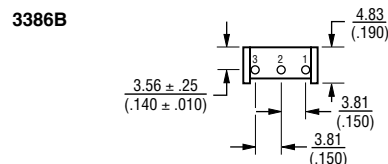
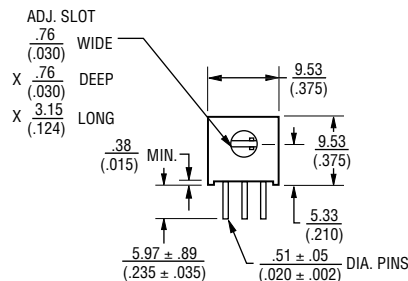
\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

†"Fluorinert" is a registered trademark of 3M Co.

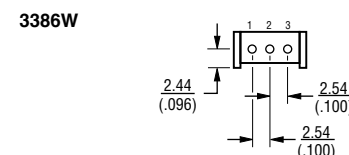
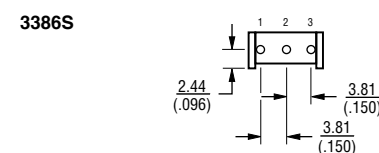
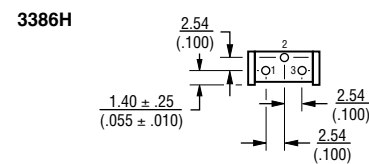
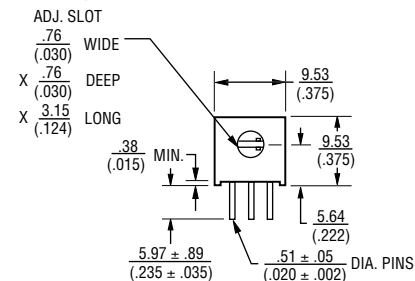
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### Product Dimensions

#### Common Dimensions Side Adjust Models B,C,J,X



#### Common Dimensions Side Adjust Models H,S,W



DIMENSIONS: MM  
(INCHES)

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

### How To Order

**3386 P - 1 - 103 T \_ \_ LF**  
Model \_\_\_\_\_  
Style \_\_\_\_\_  
Standard or Modified \_\_\_\_\_  
Product Indicator \_\_\_\_\_  
-1 = Standard Product  
-EY5 = Extended Shaft  
Resistance Code \_\_\_\_\_  
Optional Suffix Letter \_\_\_\_\_  
T = Knob\*\*  
Packaging Designator \_\_\_\_\_  
Blank = Tube (Standard)  
R = Tape & Reel (W and U Pin Styles Only)  
A = Ammo Pack (W and U Pin Styles Only)  
Tape and reel material meets Antistatic ANSI/  
ESD 5541-2003 packaging standards.  
Terminations \_\_\_\_\_  
LF = 100 % Tin-plated (RoHS compliant)  
Blank = 90 % Tin / 10 % Lead-plated  
(Standard)

\*\*Knob option is available only in standard tube packaging. Not recommended for side load applications.

Consult factory for other available options.

### Standard Resistance Table

| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| 10                | 100             |
| 20                | 200             |
| 50                | 500             |
| 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             |

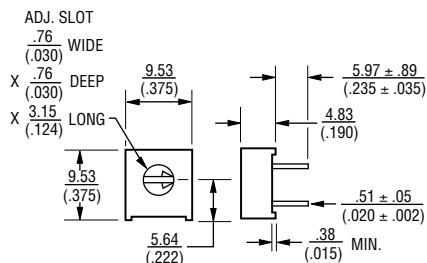
Popular distribution resistance values listed in boldface. Special resistances available.

# 3386 - 3/8 " Square Trimpot® Trimming Potentiometer

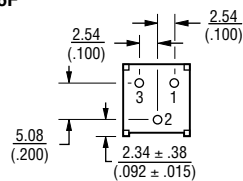
**BOURNS®**

## Product Dimensions

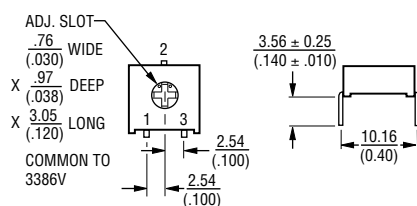
### Common Dimensions Top Adjust Models F,G,K,P,R,U,V,Y



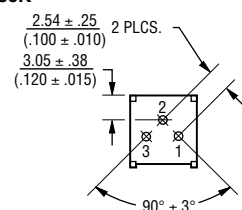
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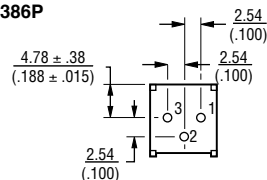
### 3386G



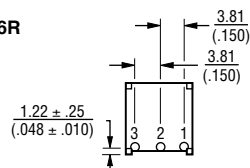
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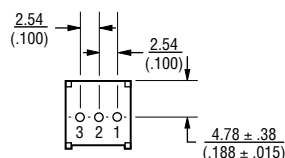
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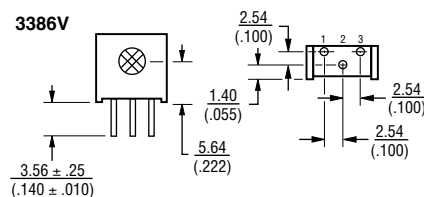
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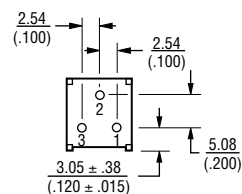
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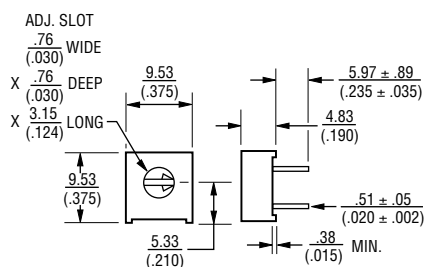
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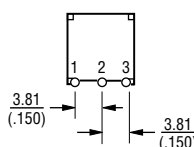
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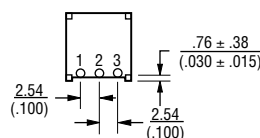
### Common Dimensions Top Adjust Models M,T



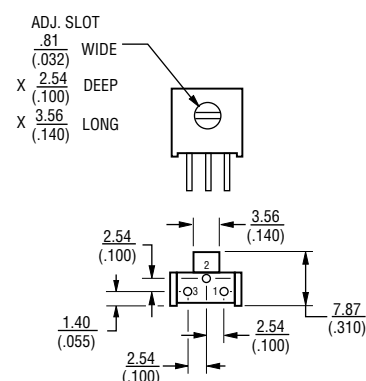
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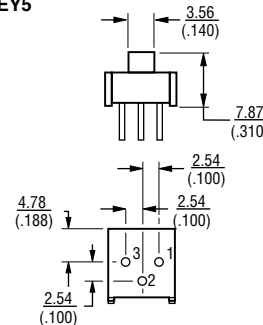
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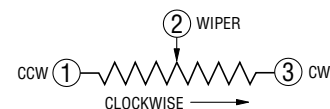
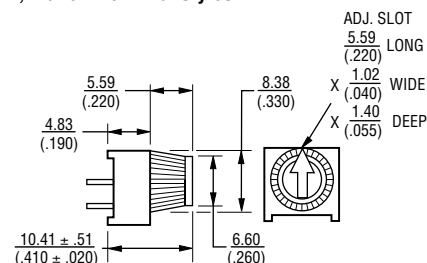
### 3386H-EY5 3386X-EY5 – SHOWN



### 3386P-EY5



The Model 3386 is available with a knob for finger adjustment. Add suffix letter "T" to order code for F, P and X terminal styles.



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$   
TOLERANCES:  $\pm \frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

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Users should verify actual device performance in their specific applications.

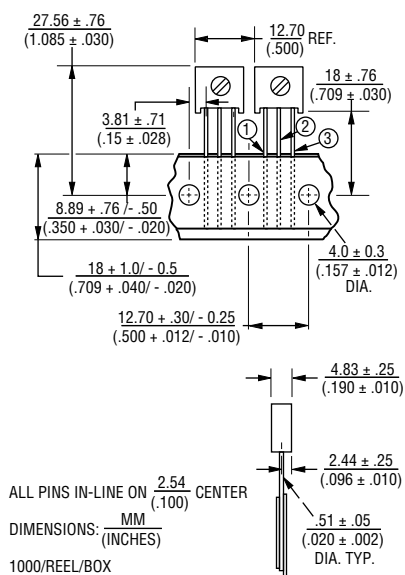
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# 3386 - 3/8 " Square Trimpot® Trimming Potentiometer

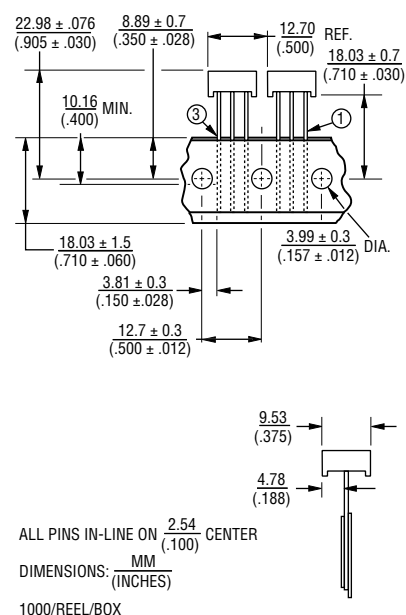
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## Packaging Specifications

### SIDE ADJUST 3386W-1



### TOP ADJUST 3386U-1



Meets EIA Specification 468.

DIMENSIONS:  $\frac{MM}{(INCHES)}$

REV. 05/16

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