



**THE DATASHEET OF**  
**3386F-1-471**





## 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 Trimpot® Trimming Potentiometer

### Additional Information

Click these links for more information:



### Electrical Characteristics

- Standard Resistance Range ..... 10 ohms to 2 megohms  
(see standard resistance table)
- Resistance Tolerance ..... ±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 ..... ±0.05 %  
Rheostat ..... ±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 ° 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 ..... ±100 ppm/°C
- Seal Test ..... 85 °C Fluorinert†
- Humidity ..... MIL-STD-202 Method 103  
96 hours  
(2 % ΔTR, 10 Megohms min.)
- Vibration ..... 30 G (1 % ΔTR; 1 % ΔVR)
- Shock ..... 100 G (1 % ΔTR; 1 % ΔVR)
- Load Life... 1,000 hours 0.5 watt @ 70 °C  
(3 % ΔTR; 3 % or 3 ohms, whichever is greater, CRV)
- Rotational Life ..... 200 cycles  
(4 % ΔTR; 3 % or 3 ohms, whichever is greater, CRV)

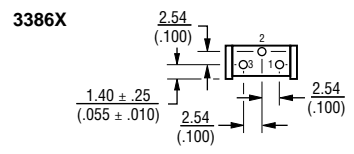
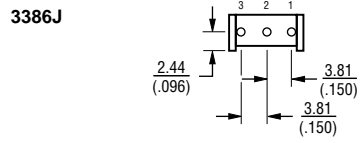
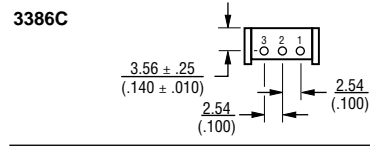
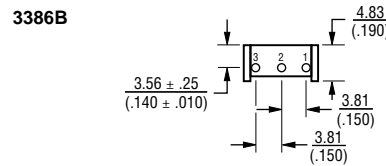
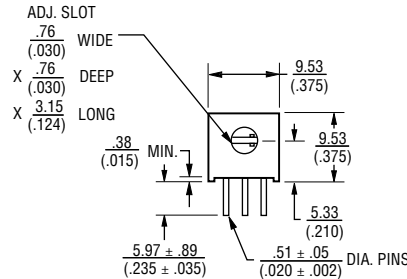


**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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### Product Dimensions

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

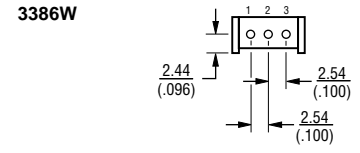
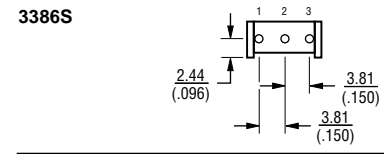
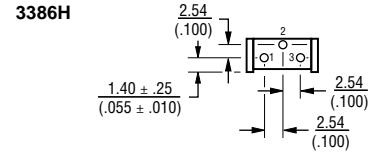


### Standard Resistance Table

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

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

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



### Physical Characteristics

- Mechanical Angle ..... 310 ° 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) ±10 %
- Adjustment Tool ..... H-90

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

# BOURNS®

## Product Dimensions

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



### 3386F



### 3386G



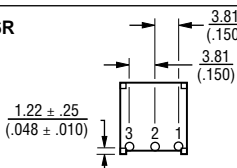
### 3386K



### 3386P



### 3386R



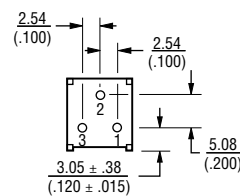
### 3386U



### 3386V



### 3386Y



### Common Dimensions Top Adjust Models M,T



### 3386M



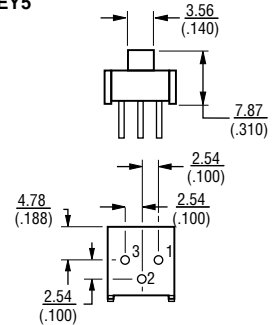
### 3386T



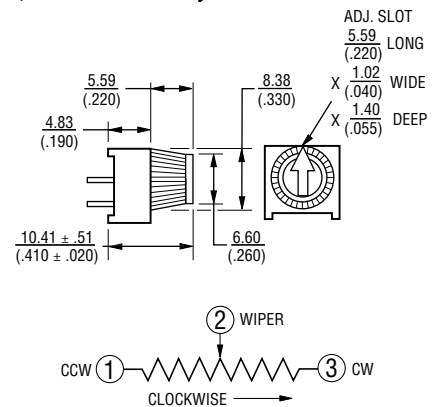
### 3386H-EY5 3386X-EY5 – SHOWN



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

# BOURNS®

## Packaging Specifications

### SIDE ADJUST 3386W-1



### TOP ADJUST 3386U-1



Meets EIA Specification 468.

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

## How To Order

Model **3386 P - 1 - 103 T LF**

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.

†"Fluorinert" is a registered trademark of 3M Co. "Trimpot" is a trademark of Bourns, Inc.

# BOURNS®

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-  Shortage Management
-  Alternative Solution
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