

# Single Turn Trimmer

## Model B25



### Features:

- 1/4" square
- Sealed single turn
- Cermet
- Through-hole

## Electrical

Standard Resistance Range	100Ω—1MΩ
Standard Resistance Tolerance	±10%
Input Voltage	160 VDC Max. or rms not to exceed power rating
Power Rating	0.5 Watts at 70°C derating to 0 at 100°C
End Resistance	1% or 10 Ω Max., whichever is greater
Actual Electrical Travel	240° ±10°
Dielectric Strength	500 Vrms
Insulation Resistance	1,000 MΩ Min.
Resolution	Essentially Infinite
Contact Resistance Variation	3% or 5Ω Max., whichever is greater

## Environmental

Seal	85°C Fluorinet® (No Leaks)
Temperature Coefficient	±250 ppm/°C
Operating Temperature Range	-55°C to +100°C
Thermal Shock	Five Cycles -55°C to +100°C (5% ΔRT, 5% +0.1Ω VR)
Moisture Resistance	Ten 24 hour cycles (5% ΔRT)
Bump	390m/s <sup>2</sup> , 4000 times (5% ΔRT, 5% +0.1Ω ΔVR)
Vibration	10 to 500 Hz, 98m/s <sup>5</sup> , 6 hrs (7.5% ΔRT, 5% +0.1Ω VR)
High Temperature Exposure	250 hours at 100°C (2% ΔRT, 2% ΔVR)
Rotational Life	200 cycles (±10% ΔRT +0.5Ω, 3% ΔVR or 5Ω whichever is greater)
Load Life	1,000 hours at 70°C & 0.5 Watts (10% +0.5Ω ΔRT, 15% +0.5Ω ΔVR)
Resistance to Solder Heat	350°C for 3 seconds or 260°C for 5 seconds (5% +0.5Ω ΔRT)

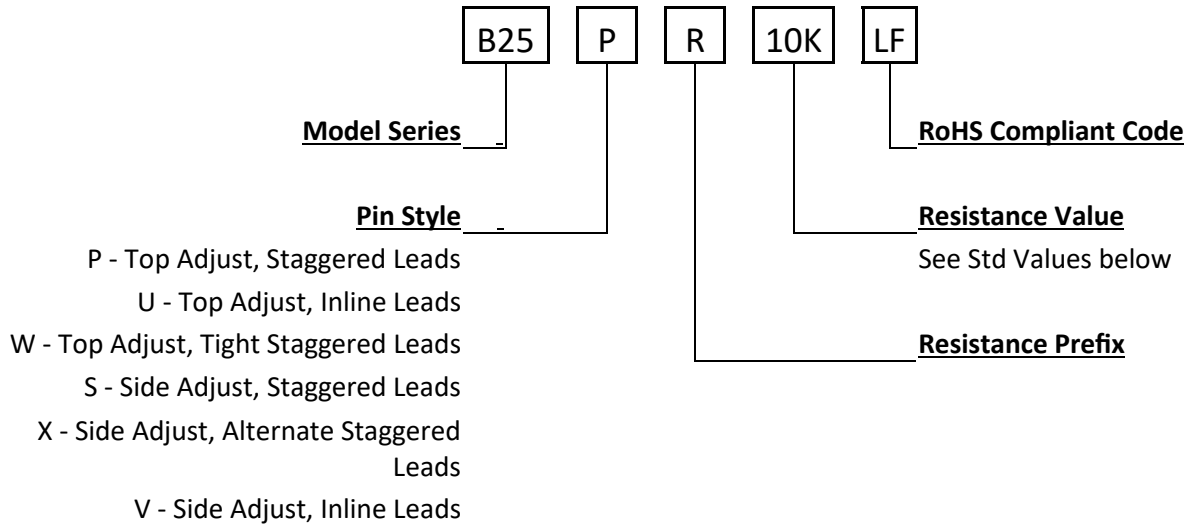
## Mechanical

Mechanical Travel	260° ±10°
Mechanical Stops	Solid
Stop Strength	7 oz-in. Min. (500 g-cm)
Torque	3 oz-in. Max. (200 g-cm)
Weight	0.01 oz. nominal (0.3 grams)

General Note  
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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### Ordering Information



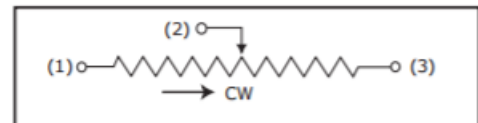
### Packaging Information

Standard: Tubes. 50 units each. All units oriented with #1 pin to same side

#### Standard Resistance Values, Ohms

100	200	500	
1K	2K	5K	
10K	20K	50K	
100K	200K	500K	1MEG

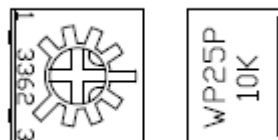
#### Circuit Diagram



### Marking Information

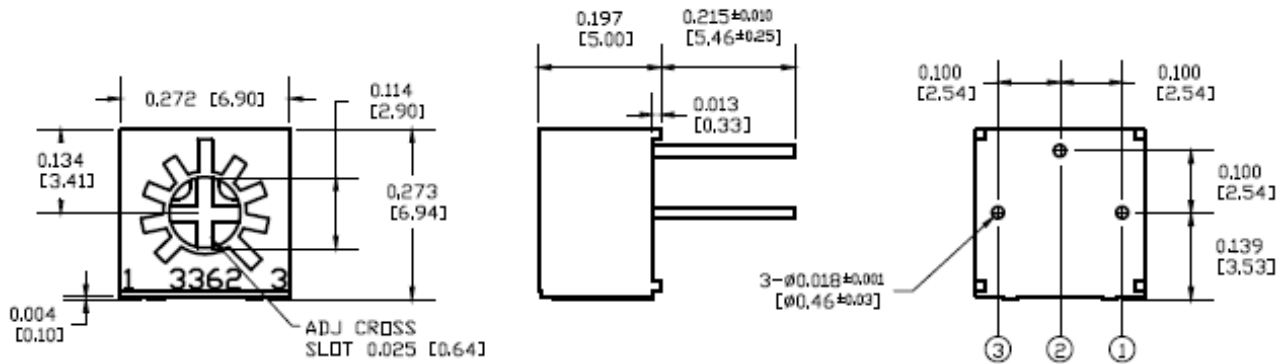
Parts marked with two letter date code, "25", Pin Style and Value.

P style example below:



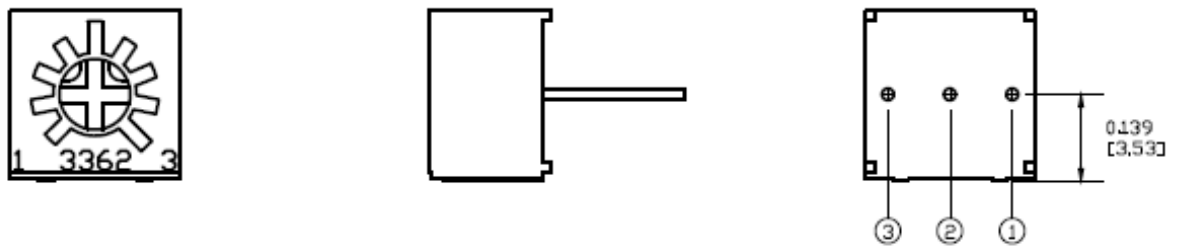
### Outline Drawings—Top Adjustment

#### MODEL B25P

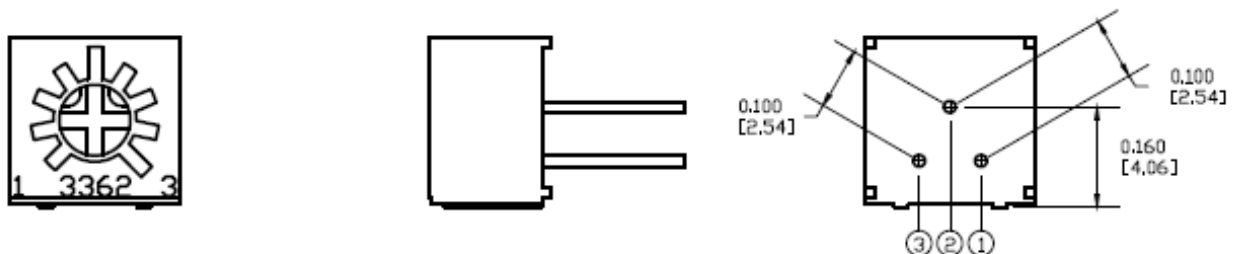


Note: Model 25P dimensions applicable to all models except as noted

#### MODEL B25U



#### MODEL B25W



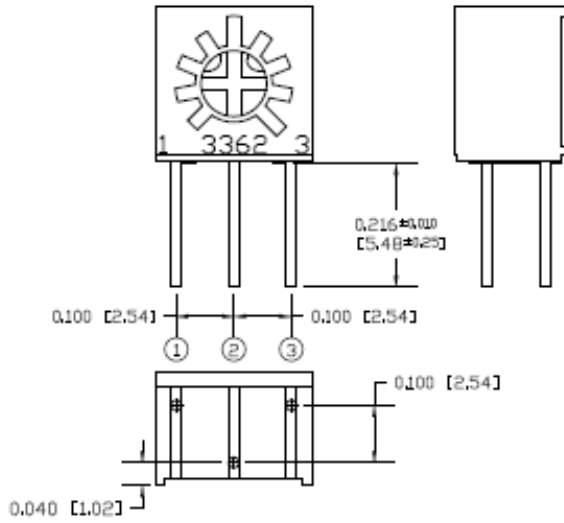
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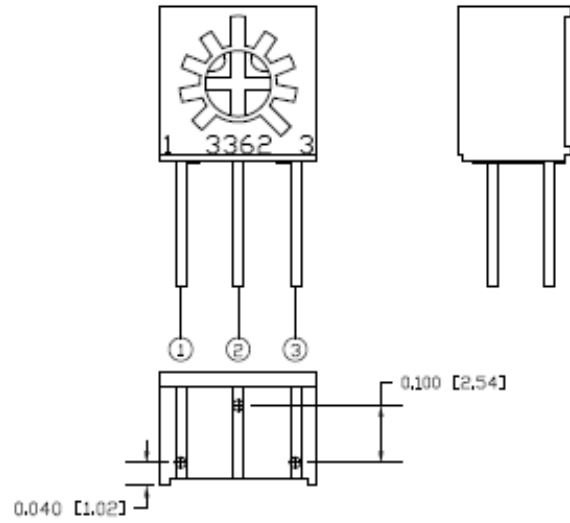


### Outline Drawings—Side Adjustment

MODEL B25S



MODEL B25X



MODEL B25V

