

# Multi-Turn Trimmer

## Model 45



### Features:

- Space saving SMD package for the most compact board designs
- 4 mm square, cermet surface mount
- High resolution, 15 turns
- Sealed to withstand aggressive water wash
- Long life—set and forget construction
- Available in top and side adjustment versions, J-Hook or gull wing termination and optional extended shaft



## Electrical

Standard Resistance Range	10 Ohms to 2 Megohms
Standard Resistance Tolerance	±10% (<100 Ohms = ±20%)
Input Voltage	300 Vdc Max. or rms not to exceed power rating
Slider Current	100 mA Max. or within rated power, whichever is less
Power Rating	0.25 Watts at 85°C derating to 0 at 150°C
End Resistance	1% or 2 Ohms Max., whichever is greater
Actual Electrical Travel	15 turns nominal
Dielectric Strength	600 Vrms
Insulation Resistance	1,000 Megohms Min.
Resolution	Essentially infinite
Contact Resistance Variation	1% or 3 Ohms Max., whichever is greater

## Environmental

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient	±100 ppm/°C (<100 Ohms = ±250 ppm/°C)
Operating Temperature Range	-65°C to +150°C
Thermal Shock	Five cycles -65°C to +150°C (2% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (2% ΔRT, IR 10 Megohms Min.)
Shock	6 ms sawtooth, 100 G's (1% ΔRT, 1% ΔVR)
Vibration	20 G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)
Rotational Life	200 cycles (3% ΔRT, 1% CRV)
Load Life	1,000 hours at 85°C & 0.25 Watts (2% ΔRT, 1% CRV)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)
Temperature Exposure	215°C for 3 min. Max. (1% ΔRT)
Solderability	Per MIL-STD-202, Method 208

### 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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### Mechanical

Mechanical Stops	Clutch action, both ends
Torque, Starting	3 oz.-in. Max. (0.021 N-m)
Weight	0.01 oz. nominal (0.3 grams)

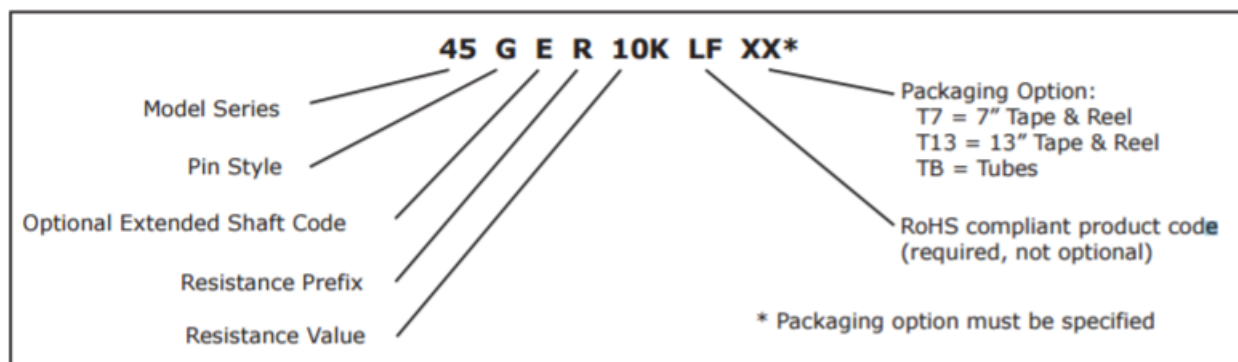
### Packaging Information

Standard: Embossed Tape & Reel. All units oriented with #1 pin to the right of the direction of feed.

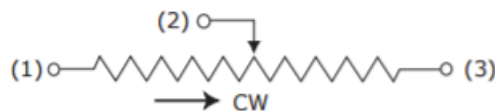
13" Reel				7" Reel	
Pin Style	G & J	W	G & J	W	
Tape	Width = 12 mm	16 mm	12 mm	16 mm	
	Sprocket = 4 mm pitch	4 mm pitch	4 mm pitch	4 mm pitch	
	Capacity = 1,000 units	1,000 units	500 units	250 units	
Reel	Diameter = 13" (330.2 mm)		7" (178 mm)		

Option: Anti-static tubes. All units oriented with #1 pin to same side. Tube capacity = 100 units.

### Ordering Information



### Circuit Diagram



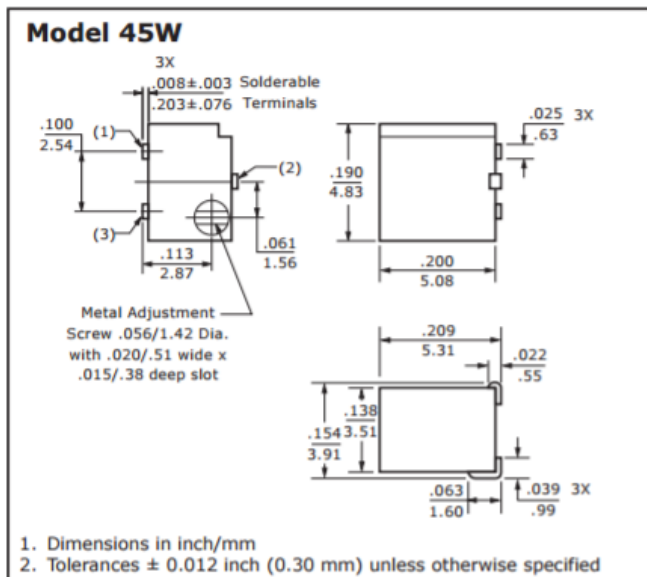
### Standard Resistance Values

10	100	1K	10K	50K	250K	2Meg
20	200	2K	20K	100K	500K	
50	500	5K	25K	200K	1Meg	

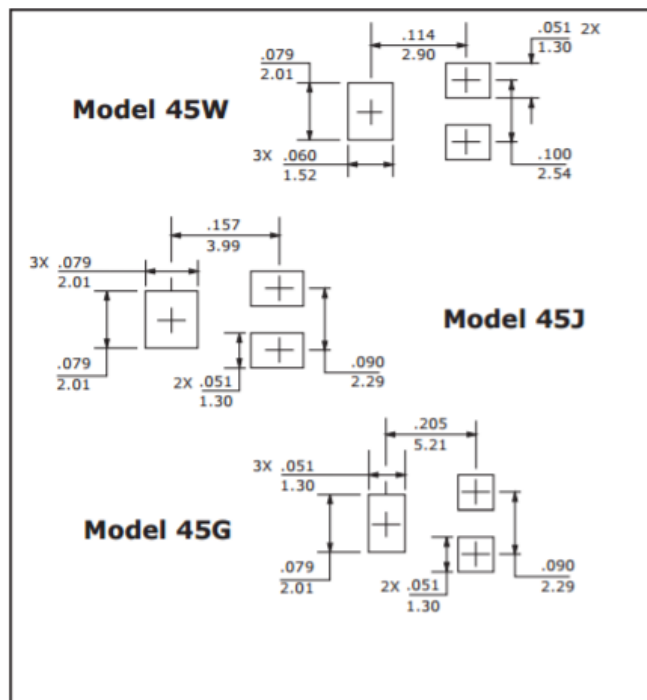
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### Outline Drawings

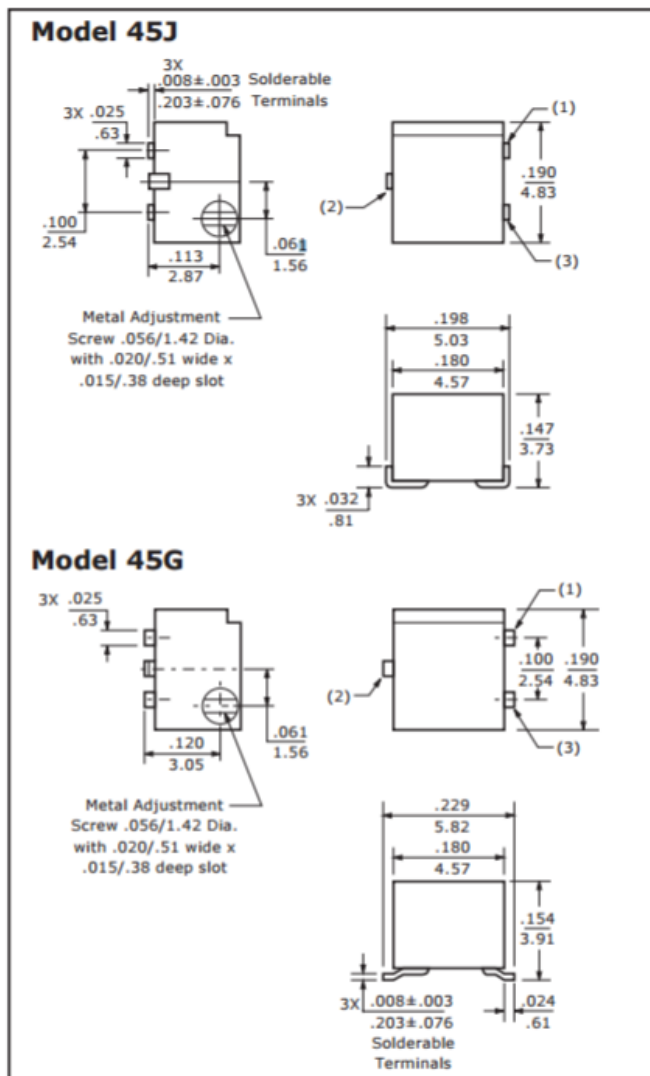
#### TOP ADJUSTMENT



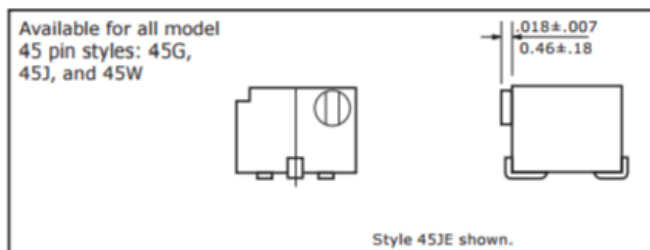
#### SOLDER PAD LAYOUT



#### SIDE ADJUSTMENT



#### EXTENDED SHAFT OPTION



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