

Multi-Turn Trimmer

Model 68



Features:

- 3/8" square
- Cermet



Electrical

Standard Resistance Range	10 Ohms to 2 Megohms
Standard Resistance Tolerance	±10% (<100 Ohms = ±20%)
Input Voltage	200 Vdc Max. or rms not to exceed power rating
Slider Current	100 mA Max. or within rated power, whichever is less
Power Rating	0.5 Watts at 85°C derating to 0 at 125°C
End Resistance	2 Ohms Max.
Actual Electrical Travel	20 turns nominal
Dielectric Strength	900 Vrms
Insulation Resistance	1,000 Megohms Min.
Resolution	Essentially infinite
Contact Resistance Variation	1% or 1 Ohm Max., whichever is greater

Environmental

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient	±100 ppm/°C (<100 Ohms = ±250 ppm/°C)
Operating Temperature Range	-55°C to +125°C
Thermal Shock	Five cycles -55°C to +125°C (1% ΔRT, 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (1% ΔRT, IR 1,000 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)
High Temperature Exposure	250 hours at 125°C (2% ΔRT, 2% ΔVR)
Rotational Life	200 cycles (3% ΔRT)
Load Life	1,000 hours at 70°C & 0.5 Watts (2% ΔRT)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

General Note

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Mechanical

Mechanical Stops	Clutch action, both ends
Torque, Starting	5 oz.-in. Max. (0.035 N-m)
Weight	0.04 oz. nominal (1.1 grams)

Packaging Information

Standard (no code): Boxes. Capacity = 100 units for 68W. 50 units for all other pin styles.

Option (TR code, available for 68W & 68X only): Tape & Reel. All units oriented with #1 pin to the right of the direction of feed.

Tape	Width = 18 mm
	Sprocket = Single hole, 0.050" spacing
	Capacity = 1,000 units
	Seat plane to centerline of sprocket hole = 0.71" (18 mm)
Reel	Diameter = 14" (363 mm)

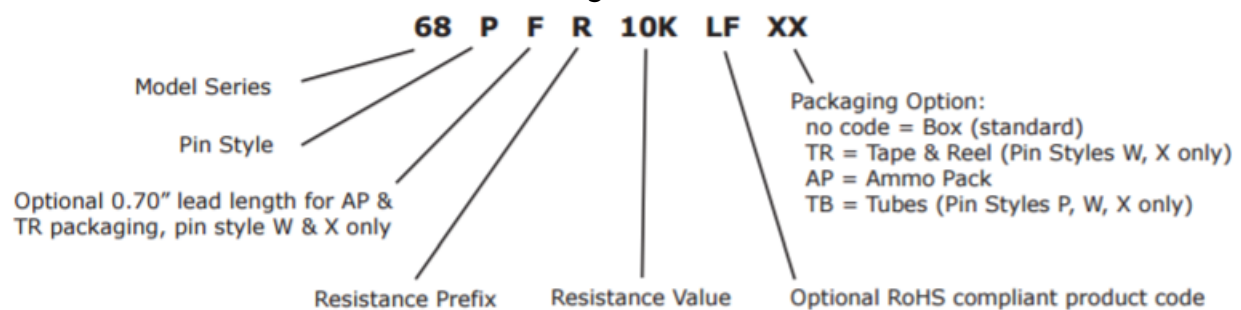
Option (AP code, available for 68W & 68X only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

Ammo	Tape Fold = 12" (305 mm)
	Box = 1.8" x 13" x 10" (46 mm x 330 mm x 254 mm)

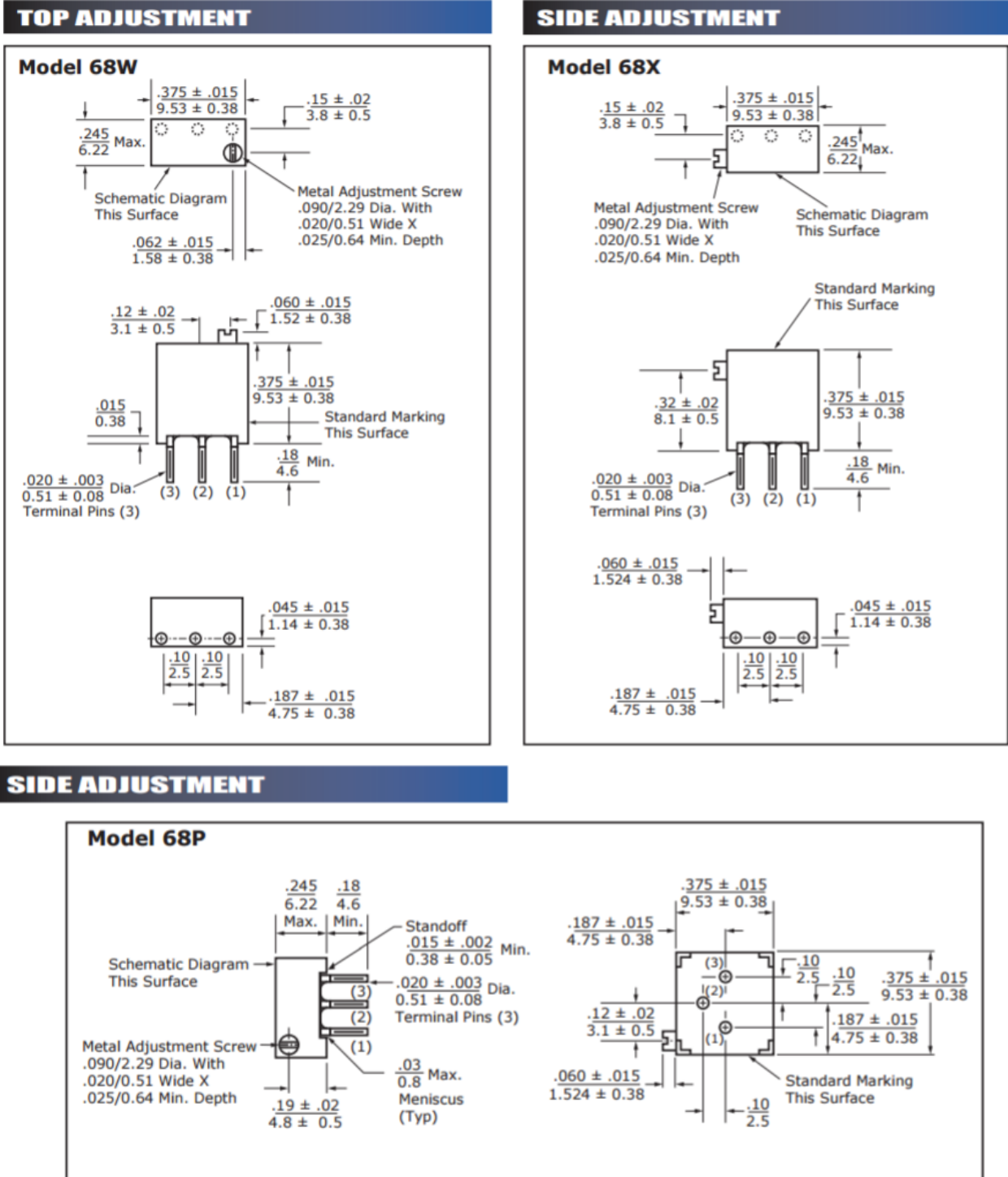
Option (TB code): Tubes. All units oriented with #1 pin to same side. Tube capacity = 50 units.

	Pin Style	P	W	X
Dimensions	Width =	0.57"	0.33"	0.33"
	Height =	0.66"	0.90"	0.90"
	Length =	20.9"	20.4"	24.4"

Ordering Information

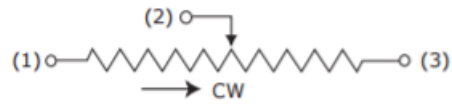


Outline Drawings



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Circuit Diagram



Standard Resistance Values

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

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