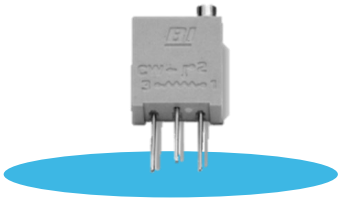
Model 67

Cermet Trimming Potentiometer



Features:

- 3/8” square
- Multiturn
- Sealed to be compatible with aqueous PCB cleaning process
- Highly reliable
- Long life

Applications:

- Any application requiring adjustability or calibration
- Medical
- Consumer electronics

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 minimum
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 saw-tooth, 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)

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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

Standard (no code): Boxes. Capacity = 100 units for 67W. 50 units for all other pin styles.

Option (TR code, available for 67W & 67X 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)

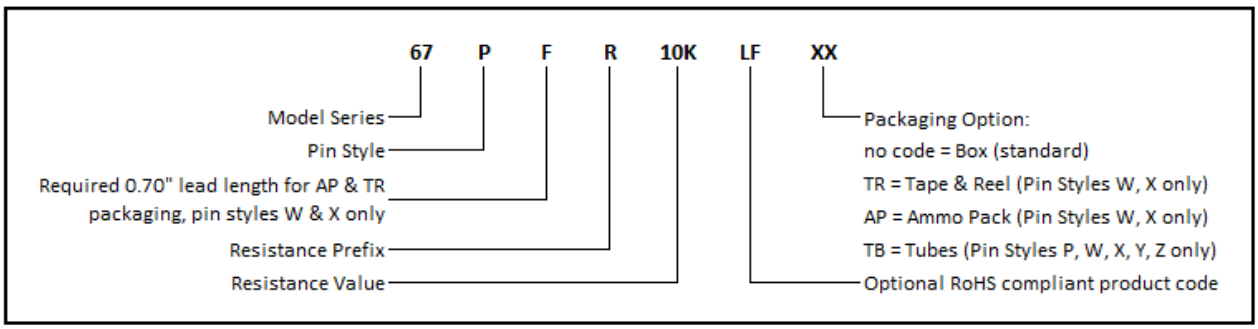
Option (AP code, available for 67W &67X only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

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 = 25 units for 67X and 67Z. 50 units for all other pin styles

	Pin Style	P	W,Y	X,Z
Dimensions	Width =	0.57”	0.28”	0.28”
	Height =	0.66”	0.93”	0.93”
	Length =	20.9”	20.6”	13.0”

Ordering Information



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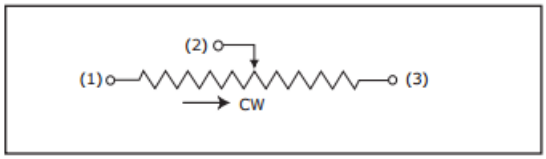
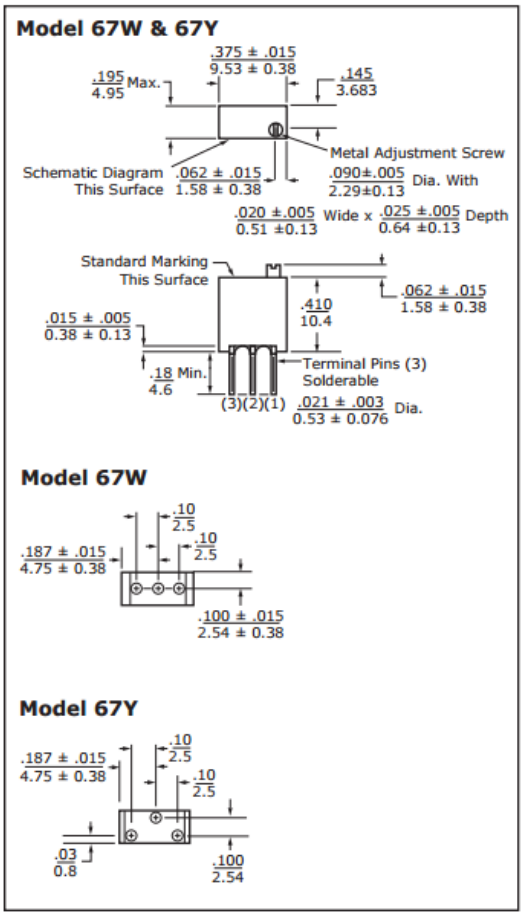
Circuit Diagram



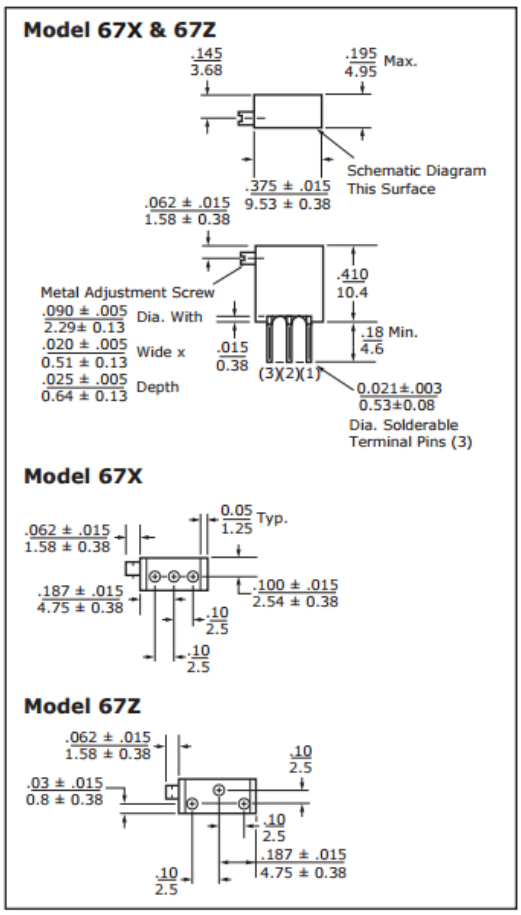
Standard Resistance Values

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

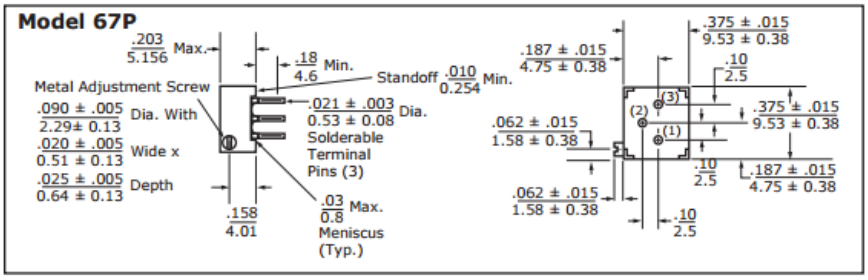
Top Adjustment



Side Adjustment



Side Adjustment



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Issue	Change Description	Approval	Date
A			
B			7/2012
C	Updated logo and fonts. Changed footer address from Fullerton address to Mexicali address	Brooke Combs	4/5/2019
D	Correct tube capacity and tube length for 67X and 67Z	A. Harrell	11/8/2022
E	Update Ordering Information to clarify that F is required for TR and AP packaging of 67W and 67X	A. Harrell	11/17/2022

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