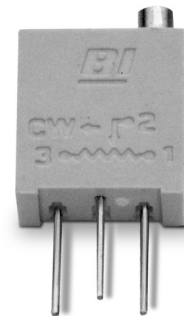


# Model 67

## 3/8" Square

## Multiturn

## Cermet Trimming Potentiometer



### 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)                         |

### 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) |

*Specifications subject to change without notice.  
Fluorinert® is a registered trademark of 3M Company.*

# Model 67

## 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)                |

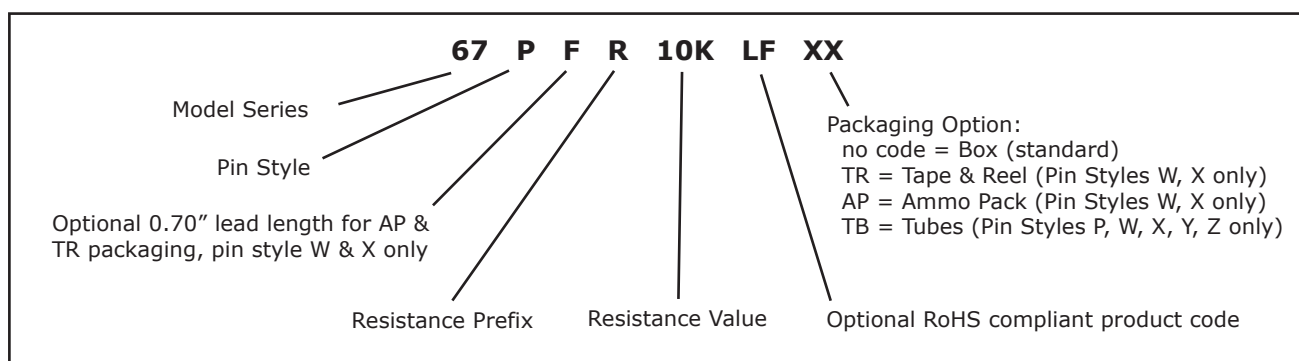
Option (AP code, available for 67W & 67X only): Ammo Pack. All units oriented with #1 pin to the right of the direction of feed.

|      |             |                                               |
|------|-------------|-----------------------------------------------|
| Ammo | Tape Fold = | 12" (305 mm)                                  |
|      | Box =       | 1.8" x 13" x 10"<br>(46 mm x 330 mm x 254 mm) |

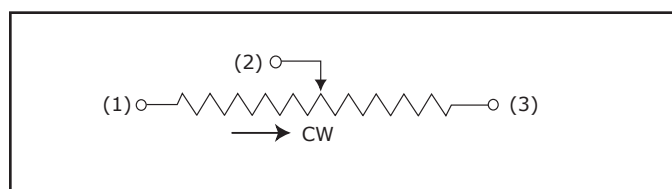
Option (TB code): Tubes. All units oriented with #1 pin to same side. Tube capacity = 50 units.

|            | Pin Style | P     | W, Y  | X, Z  |
|------------|-----------|-------|-------|-------|
| Dimensions | Width =   | 0.57" | 0.28" | 0.28" |
|            | Height =  | 0.66" | 0.93" | 0.93" |
|            | Length =  | 20.9" | 20.6" | 24.4" |

## ORDERING INFORMATION



## CIRCUIT DIAGRAM



## STANDARD RESISTANCE VALUES

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

**BI Technologies Corporation**

4200 Bonita Place, Fullerton, CA 92835 USA

Phone: 714 447 2345 Website: [www.bitechnologies.com](http://www.bitechnologies.com)

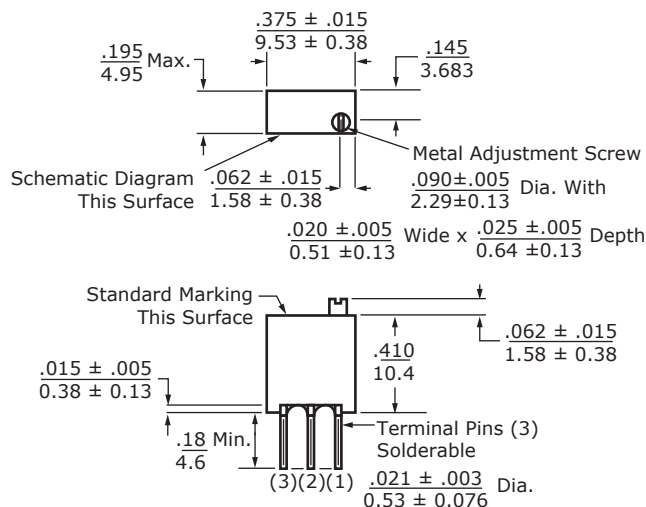
July 5, 2012



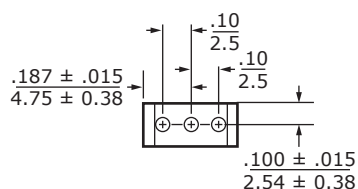
# Model 67

## TOP ADJUSTMENT

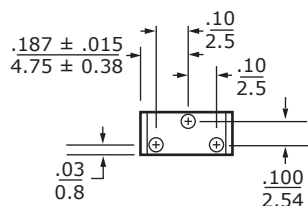
### Model 67W & 67Y



### Model 67W

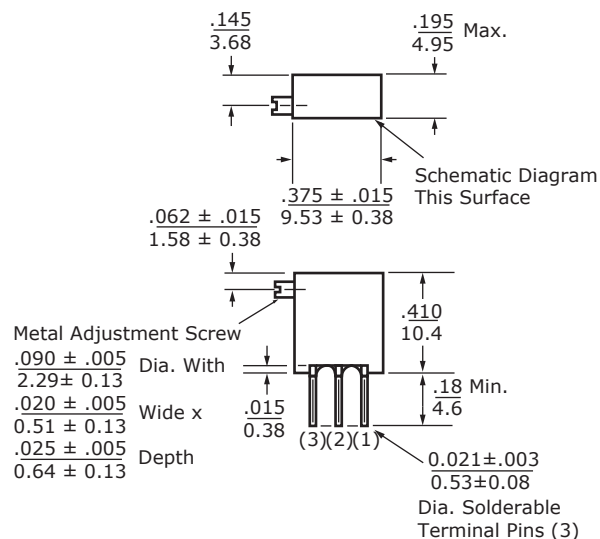


### Model 67Y

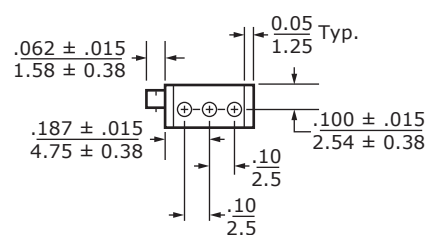


## SIDE ADJUSTMENT

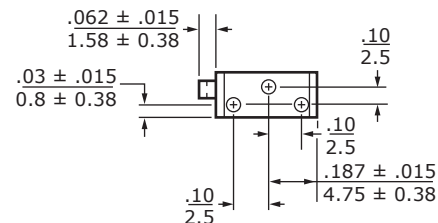
### Model 66X & 67Z



### Model 67X



### Model 67Z



## SIDE ADJUSTMENT

### Model 67P

